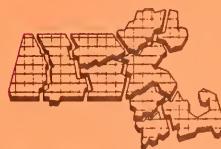
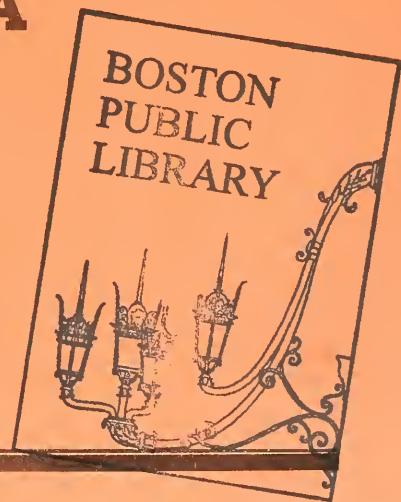


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# ANNUAL PLANNING INFORMATION REPORT FISCAL YEAR 1980 BOSTON SMSA



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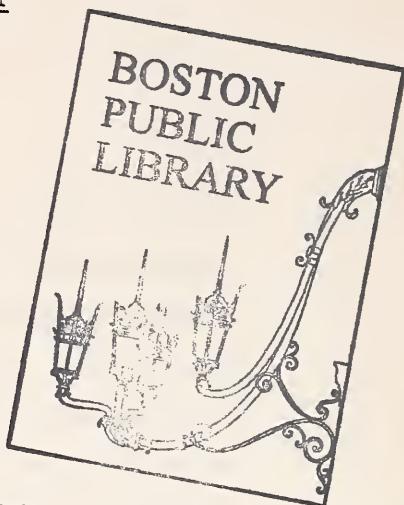
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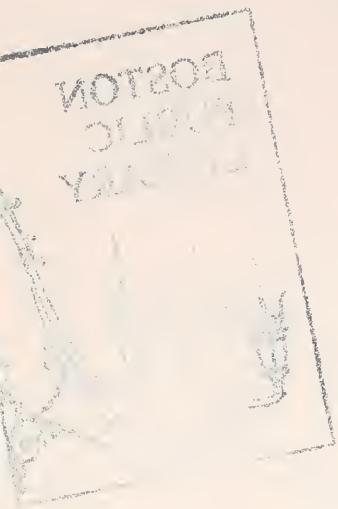
FISCAL YEAR 1980



STANDARD METROPOLITAN STATISTICAL AREA

BOSTON, MASSACHUSETTS

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## P R E F A C E

The Annual Planning Information Report is prepared in order to provide manpower planners information that will enable them to identify groups for whom services should be provided, the types of programs that would best serve these groups and the number and types of workers required to meet employer needs. It contains information regarding the number of persons needing various manpower services during the coming year, demographic and socio-economic information, anticipated labor market conditions and information on employment developments by industry and by occupation.



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## I. Highlights and Conclusions

Nonagriculture wage and salary employment in the Boston SMSA reached its highest level of the decade in 1978 with an annual average of 1,358,200 jobs. Employment gains were recorded in both the manufacturing and nonmanufacturing sectors, with manufacturing having a slightly higher growth rate, 4.7 percent versus 4.2 for nonmanufacturing. Within the manufacturing sector the largest advances were posted in transportation equipment and instruments.

The labor force continued its pattern of growth, with a 1978 annual average level of 1,366,478 a 2.1 percent increase from 1977. Accompanying this rise in the size of the labor force was a decline in unemployment in the SMSA. The annual average unemployment rate for 1978 was 5.9 percent, a decrease of 1.9 percentage points from 1977. This decline in unemployment is reflected in unemployment insurance activities, which showed a downward pattern during 1978.

Fiscal Year 1980 projections show a decreasing population for the SMSA, with total population down 2.4 percent from 1970. Despite the declining population, continued growth in the size of the labor force is projected, as labor force participation rates continue to increase. There will be certain groups within the SMSA's population that will be in need of assistance in order to obtain gainful employment. Among these are the economically disadvantaged, the long-term unemployed, individuals who have no job skills and youth. Among the programs available to assist these individuals are the CETA (Comprehensive Employment and Training Act) and WIN (Work Incentive Program).

## II. Description of Area

### A. Definition of Area

The Boston Standard Metropolitan Statistical Area (SMSA) consists of 17 cities and 65 towns with the city of Boston as its core. It is a geographic and economic entity which cuts across county lines. All of Suffolk County and parts of Essex, Middlesex, Norfolk, and Plymouth Counties are included.

The area is well served by north-south, east-west commercial over the road transportation routes, including interstate routes 95, 495 and 93. Logan Airport in Boston, which is the nation's eighth busiest, provides both interstate and international shipping facilities for the area's businesses and fast and convenient transportation for the population.

Cities	Towns
Beverly	Abington
Boston	Acton
Cambridge	Arlington
Chelsea	Ashland
Everett	Bedford
Lynn	Belmont
Malden	Bellingham
Medford	Boxborough
Melrose	Boxford
Newton	Braintree
Peabody	Brookline
Quincy	Burlington
Revere	Canton
Salem	Carlisle
Somerville	Cohasset
Waltham	Concord
Woburn	Danvers
	Dedham
	Dover
	Duxbury
	Framingham
	Franklin
	Foxborough
	Hamilton
	Hanover
	Hanson
	Hingham
	Holbrook
	Holliston
	Hull
	Kingston
	Lexington
	Lincoln
	Lynnfield
	Manchester
	Marblehead
	Marshfield
	Medfield
	Medway
	Middleton
	Millis
	Milton
	Nahant
	Natick
	Needham
	Norfolk
	No. Reading
	Norwell
	Norwood
	Pembroke
	Randolph
	Reading
	Rockland
	Saugus
	Scituate
	Sharon
	Sherborn

The SMSA includes two prime sponsor CETA areas, and six subgrantee CETA areas.

Boston SMSA CETA areas:

Prime Sponsors

Boston

City of Boston

E.M.H.R.D.A.

Arlington  
Belmont  
Cambridge  
Somerville  
Watertown

Subgrantees

Medford

Burlington  
Everett  
Malden  
Medford  
Melrose  
North Reading  
Reading  
Stoneham  
Wakefield  
Wilmington  
Woburn  
Winchester

Newton

Bedford  
Brookline  
Dover  
Lexington  
Lincoln  
Needham  
Newton  
Waltham  
Wellesley  
Weston

Quincy

Braintree  
Cohasset  
Hingham  
Holbrook  
Hull  
Milton  
Norwell  
Quincy  
Randolph  
Scituate  
Weymouth

Norwood

Bellingham  
Canton  
Dedham  
Franklin  
Foxboro  
Medfield  
Millis  
Norfolk  
Norwood  
Plainville  
Sharon  
Walpole  
Westwood  
Wrentham

Salem

Beverly  
Danvers  
Essex  
Gloucester  
Hamilton  
Ipswich  
Lynn  
Lynnfield  
Manchester  
Marblehead  
Middleton

Chelsea

Chelsea  
Revere  
Winthrop

## B. Population and Labor Force Characteristics

U. S. Department of Labor projections for fiscal year 1980 indicate declines in the populations of the Boston SMSA, the City of Boston, and the EMRDA CETA Consortium area as compared to 1970 Census figures. Population for the Boston SMSA is projected to drop from a 1970 level of 2,887,510 to 2,819,159, down 2.4 percent, the city of Boston's population is projected to decline from 641,071 to 600,026, (-6.4 percent) and the EMRDA CETA consortium will drop from 310,256 to 280,099 (-9.7 percent).

The labor force for the Boston SMSA for fiscal year 1980 is projected to continue its pattern of expansion reaching a level of 1,350,316. The increase in the size of the labor force despite a declining population is due to increasing labor force participation rates, especially for females, minorities and youth. The increase in the labor force participation rates for women is due to several factors among them, the rise of job opportunities for women that accompanied the expansion of the service sector of the economy, the increase in women's educational attainment, and the high cost of living which forces many wives to seek employment in order to supplement family income.

Table 1  
 Population and Labor Force Characteristics  
 1970 - Projected Fiscal Year 1980  
 Boston SMSA

	1970			Projected Fiscal Year 1980		
	Popu- lation	Labor Force	Labor Force Participation Rate	Popu- lation	Labor Force	Labor Force Participati on Rate
TOTAL	2,887,510	1,228,085	59.9	2,819,159	1,350,316	64.6
White Male	1,297,722	697,438	77.4	1,212,659	693,453	78.6
White Female	1,436,963	475,488	45.0	1,373,770	563,154	53.3
Nonwhite Male	71,617	30,118	70.7	105,330	47,839	74.1
Nonwhite Female	81,208	25,031	48.0	127,400	45,870	52.8

### III. Employment Developments and Outlook By Industry

#### Industry Developments

Nonagricultural wage and salary employment stood at 1,358,200 in 1978, the highest level of the decade. During 1978, a year of unprecedented growth for the seventies, an annual employment growth rate of 4.3 percent occurred, a gain of 55,900 jobs. However during the upcoming year employment growth is expected to be considerably lower, the result of an anticipated slowdown in the economy or even a possible recession. This section on Industry Developments contains tables for the Boston SMSA on nonagricultural employment by industry 1970 to 1978 with percentage changes for significant years. Also included, to facilitate comparison, are tables for the State of Massachusetts.

Manufacturing employment for 1978 was 280,600 an over the year gain of 4.7 percent or 12,500 jobs. Manufacturing employment is at its highest point in eight years, although it has not yet reattained the 1970 level of 288,300. This loss of manufacturing employment occurred essentially in the nondurable goods sector. Between 1970 and 1978 nondurable goods employment fell by better than 20 percent whereas durable goods employment increased by 10.6 percent over the same period.

Employment in the durable goods sector in 1978 was at the highest level of the decade. An overall 6.5 percent annual gain occurred in 1978 with substantial additions taking place in transportation equipment (+14.4 percent) and instruments (+8.9 percent).

Since 1970 tremendous growth has been exhibited by the instruments industry (+72.7 percent). Significant increases have also occurred in the fabricated metals (+24.1 percent) and transportation equipment (+17.7 percent) industries. Two durable goods segments which still haven't reached 1970 levels are the electrical machinery (-6.0 percent) industry and the industries in the other durable goods (-44.1 percent).

Employment in the nondurable goods sector hasn't fared as well as the durable goods sector during the seventies. In 1978 a marginal increase of 1.4 percent took place and since 1970 employment in this sector has dropped by better than 20 percent. Nondurable goods employment went from 123,200 in 1970 to 98,000 in 1978. During this period all industries experienced declines, with a single exception, chemicals, which rose 7.2 percent.

Nonmanufacturing, at 1,077,600 accounts for nearly 80 percent of all nonagricultural employment in the SMSA. Growth of 4.2 percent occurred in 1978. Since 1970 employment has moved forward by 7.1 percent an increase of 71,200 jobs. However this increase did not take place in all industries.

Construction at 41,400 in 1978 was 28.7 percent lower than the 1970 level. Transportation, Communications, and Utilities dropped by 11.1 percent, and wholesale and retail trade fell by 1.0 percent over the same time period. These decreases however, were more than offset by gains in the Service, Miscellaneous and Mining (+29.2 percent), Government (+7.6 percent), and Finance, Insurance, and Real Estate (+2.8 percent) industries of the nonmanufacturing sector.

Table 2  
Nonagricultural Wage and Salary Employment  
Boston SMEA  
1978  
(in 000's)

ITEM	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL AVERAGE
Nonagricultural Total	1315.4	1316.5	1333.3	1348.1	1358.0	1368.6	1363.6	1368.3	1371.2	1377.9	1384.9	1392.3	1380.2
Manufacturing Total	292.5	271.8	275.3	277.5	279.5	283.2	281.5	283.5	284.0	295.7	286.2	286.5	290.6
Durable Goods Total	175.8	175.6	177.5	179.3	180.7	183.8	183.7	185.0	186.1	187.5	188.1	188.3	182.6
Primary Metals	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.4	3.4	3.4	3.3
Fabricated Metals	20.7	20.6	20.8	20.8	20.9*	21.1**	21.0	21.2	21.3	21.3	21.7	21.7	21.1
Nonelectrical Machinery	35.3	35.0	35.5	35.8	36.0	36.8	36.8	37.0	37.0	37.2	37.4	37.5	36.4
Electrical Machinery	177.8	167.4	168.8	169.1	169.5	169.1	169.1	169.1	169.7	169.7	169.8	169.8	149.0
Transportation Equipment	22.5	22.7	22.9	23.5	23.5	26.0	26.0	24.4	24.9	26.9	25.0	25.2	23.9
Instruments	39.3	39.6	39.8	40.5	40.9	41.8	42.4	42.8	43.2	43.6	43.7	43.9	41.8
Other Durable Goods	6.9	6.8	7.0	7.2	7.4	7.3	7.2	7.2	7.0	7.1	7.0	6.8	7.1
Durable Goods Total	96.2	97.8	98.2	98.8	99.4	97.8	98.5	97.9	98.2	98.1	98.1	98.2	98.0
Food	16.6	16.8	16.6	16.6	16.6	16.5	16.5	16.5	16.3	16.3	16.2	16.2	16.5
Textiles	4.0	4.1	4.1	4.1	4.2	4.2	4.2	4.1	4.2	4.2	4.2	4.2	4.1
Apparel	13.3	13.6	13.7	14.0	14.1	13.6	13.6	13.8	13.6	13.6	13.6	13.5	13.7
Paper	9.3	9.0	9.3	9.4	9.4	9.6	9.4	9.5	9.4	9.4	9.3	9.4	9.4
Printing	23.3	23.2	23.3	23.4	23.7	23.8	23.4	23.5	23.6	23.7	23.7	23.9	23.6
Chemicals	8.8	8.7	8.8	8.8	8.8	9.0	9.0	9.0	9.0	9.0	9.1	9.1	8.9
Rubber	8.9	8.9	9.0	9.1	9.1	9.1	9.1	9.1	9.0	8.8	8.9	8.9	8.9
Leather	6.9	7.0	7.2	7.3	7.4	7.4	7.4	6.9	7.3	7.2	7.2	7.0	7.2
Other Nondurable Goods	5.6	5.3	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.9	5.9	5.7
Nonmanufacturing Total	1092.9	1094.7	1098.0	1070.6	1078.5	1095.4	1082.1	1084.8	1087.2	1092.2	1098.7	1105.8	1077.6
Contract Construction	35.4	33.5	34.9	35.6	42.1	44.2	45.3	46.2	45.2	45.2	43.6	41.5	41.4
Transportation & Public Utilities	67.4	67.2	67.5	68.0	68.2	69.5	66.8	68.6	68.3	68.2	66.7	67.7	67.9
Wholesale and Retail Trade	296.3	292.5	297.7	300.1	303.1	297.5	298.1	305.7	307.0	318.5	302.0	302.0	302.0
Finance, Insurance, Real Estate	96.4	96.5	97.1	97.6	97.8	99.0	99.3	98.6	98.8	98.5	98.9	98.1	98.1
Services, Miscellaneous and	345.7	351.8	360.0	364.0	366.6	365.4	365.5	367.3	368.5	371.8	373.2*	375.6	344.6
Government Total	201.7	203.2	203.8	203.9	203.7	205.2	207.8	207.8	201.5	202.6	202.6	203.6	203.6

\* Strike

\*\* Strike Over

1977 Benchmark

Table 3  
Nonagricultural Wage and Salary Employment By Industry  
Boston SMSA

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Nonagricultural Total	1,291.7	1,276.6	1,268.6	1,266.9	1,259.5	1,259.9	1,267.7	1,302.3	1,353.2
Manufacturing Total	288.3	271.1	272.5	277.1	276.4	251.6	257.0	268.1	280.6
Durable Goods	165.1	155.4	160.6	169.1	171.9	155.9	160.1	171.5	182.6
Primary Metals	3.3	3.0	3.2	3.4	3.7	3.2	3.2	3.3	3.3
Fabricated Metals	17.0	16.9	19.8	21.7	23.0	19.7	19.5	20.2	21.1
Machinery (ex. Elec.)	35.5	34.2	32.8	35.1	36.9	32.4	32.8	36.4	36.4
Electrical Machinery	52.1	46.6	41.3	43.8	44.8	41.0	43.5	47.1	49.0
Transportation Equipment	20.3	18.6	23.6	22.0	18.2	19.1	19.1	20.5	23.9
Instruments	24.2	24.2	31.7	34.8	37.0	33.9	35.0	38.4	41.8
Other Durable Goods	12.7	11.9	8.2	8.3	8.3	6.6	6.6	6.8	7.1
Nondurable Goods	123.2	115.7	111.9	108.0	104.5	95.7	96.9	106.6	108.0
Food & Knitred Products	22.9	21.1	19.8	18.6	17.7	16.7	17.1	16.6	16.5
Textile Mill Products	6.2	5.7	5.1	4.9	4.8	4.3	4.0	3.9	4.1
Apparel	16.8	15.4	15.4	14.8	14.3	13.3	13.5	13.4	13.7
Paper & Allied Products	11.3	10.8	10.8	10.9	10.6	8.7	9.5	9.5	9.4
Printing & Publishing	26.0	25.1	24.5	23.5	22.8	22.5	22.5	23.3	23.6
Chemicals & Allied	8.3	8.3	8.3	8.7	9.1	8.6	8.5	8.6	8.9
Rubber & Plastics Products	11.6	11.3	11.0	11.1	10.9	9.3	9.2	8.9	8.9
Leather & Leather Products	13.1	11.3	10.8	9.4	8.8	7.4	7.6	7.1	7.2
Other Nondurable Goods	7.0	6.4	6.2	6.1	5.5	4.9	5.0	5.3	5.7

Table 3  
Annual Average  
Nonagricultural Wage and Salary Employment By Industry  
Boston SISA  
(continued)

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Manufacturing	1,006.4	1,005.5	996.1	1,019.8	1,023.1	1,008.2	1,010.7	1,034.2	1,077.6
Contract Construction	58.1	58.5	59.6	58.8	55.5	46.8	41.5	40.1	41.4
Transportation, Communications, and Utilities	76.4	74.6	77.7	78.8	75.9	69.7	68.1	66.2	67.9
Wholesale-Retail	305.1	299.8	297.1	300.9	298.1	252.9	292.1	296.4	302.0
Finance, Insurance and Real Estate	95.4	95.1	93.3	95.1	95.0	92.8	92.7	94.7	98.1
Services, Mining and Miscellaneous	282.1	286.3	278.3	296.2	308.9	312.6	321.9	377.4	364.6
Government	189.3	191.2	190.1	190.0	189.7	193.4	194.4	197.4	203.6

1970-1973 are on a 1974 Benchmark

1974 is on a 1975 Benchmark

1975 is on a 1976 Benchmark

1976-1978 are on a 1977 Benchmark

Table 4  
Annual Average  
Nonagricultural Wage and Salary Employment By Industry  
Massachusetts

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Nonagricultural - Total	2,261.7	2,224.2	2,251.7	2,333.5	2,353.7	2,272.4	2,314.4	2,395.6	2,498.9
Manufacturing - Total	646.3	600.2	610.2	634.7	639.3	577.8	593.6	619.1	697.3
Durable Goods	334.3	305.2	314.8	339.9	354.7	318.9	325.8	350.7	370.9
Ordinance	20.2	16.8	--	--	--	--	--	--	--
Lumber & Wood	4.6	4.5	5.6	5.8	5.4	4.4	4.9	5.4	5.8
Furniture & Fixtures	10.1	9.7	9.8	10.2	9.9	8.4	8.2	8.4	8.5
Stone, Clay & Glass	12.1	11.6	12.7	14.2	15.0	10.9	12.1	12.3	13.1
Primary Metals	19.8	17.1	14.0	16.2	17.3	15.5	16.1	16.9	17.1
Fabricated Metals	40.7	38.5	52.2	56.1	57.2	49.2	50.4	52.1	54.2
Machinery (excl. Elec.)	74.1	68.0	66.0	73.1	78.5	74.0	74.0	81.6	86.2
Electrical Machinery	95.2	64.6	81.6	68.1	93.7	82.8	83.8	90.7	96.9
Transportation Equipment	25.3	23.1	34.3	33.2	30.5	30.0	31.2	33.2	36.8
Instrumentation	32.2	31.3	38.6	42.0	47.2	43.7	45.1	50.1	52.3
Nondurable Goods	314.0	295.4	294.8	294.6	298.9	267.8	263.4	270.4	276.4
Food & Kindred Products	37.1	36.0	33.1	31.5	30.4	28.6	29.5	29.0	30.1
Textile Mill Products	31.2	28.8	31.0	31.1	28.7	25.2	27.7	27.9	29.8
Apparel	49.2	46.9	45.9	45.8	46.8	41.1	43.2	43.0	43.6
Paper & Allied Products	35.1	32.7	32.2	33.3	32.2	27.9	28.9	29.4	30.3
Printing & Publishing	45.0	42.5	43.9	43.5	42.0	40.3	41.0	42.2	43.0
Chemicals & Allied	19.4	18.4	19.5	20.3	20.9	19.8	18.4	17.3	17.5
Rubber & Plastic Products	33.6	31.3	32.2	34.6	33.7	27.8	29.6	30.0	31.0
Leather & Leather Products	35.9	31.8	30.4	26.8	24.1	23.0	24.1	22.7	22.8
Other Non durable Goods	27.4	26.6	27.2	28.0	28.8	25.2	25.4	26.9	29.3

Table 4  
Annual Average  
Nonagricultural Wage and Salary Employment By Industry  
Massachusetts  
(continued)

Industry	1970	1971	1972	1973	1974	1975	1976	1977	1978
Manufacturing	1,613.4	1,629.0	1,641.5	1,698.8	1,714.1	1,694.6	1,720.8	1,776.5	1,851.6
Contract Construction	100.2	102.5	107.2	107.9	97.1	79.8	71.7	70.6	74.1
Transportation, Communication and Public Utilities	117.3	117.0	121.5	123.5	123.6	113.7	112.8	113.8	116.1
Wholesale & Retail Trade	195.0	500.4	501.5	517.0	520.5	511.8	520.2	534.6	557.9
Finance, Insurance and Real Estate	129.8	130.2	128.8	133.7	136.9	135.1	135.3	138.6	142.5
Services, Miscellaneous and Mining	451.2	443.3	439.4	465.1	482.0	498.1	508.3	531.3	566.9
Government	319.9	330.6	313.1	351.6	354.3	365.1	372.5	387.6	394.9
Federal	65.0	62.3	64.4	61.9	58.3	58.0	57.8	56.8	56.7
State and Local	254.9	268.3	278.7	289.7	296.0	307.1	314.7	330.8	337.4

1970-1973 are on a 1974 Benchmark  
1974 is on a 1975 Benchmark  
1975 is on a 1976 Benchmark  
1976-1978 are on a 1977 Benchmark

Table 5  
Nonagricultural Wage and Salary Employment  
Percentage Changes By Industry

	1970-1978		1974-1975		1976-1977		1977-1978	
	Boston	SMSA	Boston	SMSA	Boston	SMSA	Boston	SMSA
Nonagricultural Total	4.9	10.5	-3.0	-3.5	2.7	3.5	4.3	4.3
Manufacturing Total	-2.7	-0.2	-9.0	-9.6	4.3	4.3	4.7	4.6
Durable Goods	10.6	10.9	-9.3	-10.1	7.1	7.6	6.5	5.8
Primary Metals	--	-13.6	-13.5	-10.4	3.1	5.0	--	1.2
Fabricated Metals	24.1	33.2	-14.3	-14.0	3.6	3.4	4.5	4.0
Machinery (ex. Elec.)	-2.5	16.3	-12.2	-5.7	6.1	10.3	4.6	5.6
Electrical Machinery	-6.0	1.8	-8.5	-11.6	8.3	8.2	4.0	6.8
Transportation Equip.	17.7	45.5	-4.9	-1.6	7.2	6.4	14.4	10.8
Instruments	72.7	62.4	-8.4	-7.4	9.7	11.1	8.9	4.4
Nondurable Goods	-20.5	-12.0	-8.4	-9.0	-0.3	0.2	1.4	3.0
Food & Kindred Products	-28.0	-18.9	-5.6	-5.9	-2.9	-1.7	-0.6	3.8
Textile Mill Products	-33.9	7.7	-10.4	-12.2	-2.5	0.7	5.1	3.2
Apparel	-18.5	-11.4	-7.0	-7.0	-0.7	0.5	2.2	1.4
Paper & Allied Products	-16.8	-13.7	-17.9	-14.4	--	1.7	-1.1	3.1
Printing & Publishing	-9.2	-4.4	-1.3	-4.5	3.6	2.9	1.3	1.9
Chemicals & Allied	7.2	-9.8	-5.5	-5.3	1.2	-6.0	3.5	1.2
Rubber & Plastics Products	-23.3	7.7	-1.1	-17.5	-3.3	1.4	--	3.3
Leather & Leather Products	-45.0	-36.5	-15.9	4.6	-6.6	-5.8	1.4	0.4
Other Nondurable Goods	-18.6	6.9	-10.9	-12.5	6.0	5.9	7.5	8.9

Table 5  
 Nonagricultural Wage and Salary Employment  
 Percentage Changes By Industry  
 (continued)

	1970-1978		1974-1975		1976-1977		1977-1978	
	Boston SMSA	Mass.						
Nonmanufacturing	7.1	14.8	1.5	-1.2	2.3	3.2	4.2	4.2
Contract Construction	-28.7	-26.0	-15.7	-17.8	-3.4	1.5	3.2	5.0
Transportation, Communication, Utilities	-11.1	-1.0	-8.2	-8.0	-0.1	0.9	-0.4	2.0
Wholesale-Retail	-1.0	12.7	-1.7	1.7	1.5	2.8	1.9	4.4
Finance, Insurance and Real Estate	2.8	9.8	-2.3	-1.3	2.2	2.4	3.6	2.8
Service, Mining and Miscellaneous	29.2	25.6	1.2	3.3	17.2	4.5	-3.4	6.7
Government	7.6	23.2	1.5	3.0	1.5	4.1	3.1	1.7

Covered employment by CETA area for 1977 is contained in Table 6 . This refers to employment in establishments subject to the Massachusetts Employment Security Law. Information is provided for each CETA area in the SMSA and for the individual cities and towns that comprise each of these areas. Employment levels are also broken down by major industrial category in order to illustrate the industrial mix of the areas.

All of the CETA areas mirror the SMSA pattern of a greater concentration of employment in the nonmanufacturing sector. The Norwood CETA consortium has the highest incidence of manufacturing employment with 37.6 percent of all covered employment being in the manufacturing industries, with the Salem consortium having the second highest incidence with 33.7 percent of all employment occurring in manufacturing. The City of Boston Prime Sponsor has the lowest incidence of manufacturing employment with only 14.0 percent of total employment falling into the manufacturing sector.

Covered employment excludes for the most part employment in private, primary and secondary educational institutions, agriculture, domestic service, self employment and unpaid family service. Also excluded is employment in government whether covered or uncovered. However, beginning in 1978 coverage will be extended to include nearly all categories of workers.

Table 6  
Covered Employment By  
CETA Area  
1977

	Total Employment	Agriculture, Fishing, Forestry	Mining	Construction	Manufacturing	Transp. Comm. Utilities	Wholesale Retail Trade	Finance Insurance	Real Estate	Services
Boston	382,306	630	34	12,216	53,621	32,732	82,338	60,312	140,125	
EMHRDA	118,317	314	11	4,040	27,550	6,402	27,685	3,912	48,401	
Arlington	5,356	35	0	431	281	722	1,903	362	1,604	
Belmont	4,842	34	0	267	414	366	1,397	284	2,074	
Cambridge	79,094	104	11	1,564	18,057	2,927	15,211	2,186	39,034	
Somerville	15,968	29	0	1,368	3,017	992	6,290	518	3,755	
Watertown	13,057	112	0	410	5,781	1,395	2,884	542	1,934	
Chelsea	16,973	46	0	710	3,906	959	7,457	565	3,333	
Chelsea	8,761	4	0	181	3,273	482	3,402	406	1,014	
Revere	6,344	39	0	183	470	390	3,537	96	1,630	
Winthrop	1,868	3	0	346	163	87	518	63	669	
Medford	108,067	707	52	5,320	32,860	5,433	30,891	4,373	28,431	
Burlington	17,615	75	12	492	6,591	278	5,622	564	3,981	
Everett	10,392	11	0	836	3,972	720	2,124	333	2,396	
Malden	16,051	18	27	874	2,717	1,780	3,735	710	6,191	
Medford	11,940	55	0	920	1,634	837	4,426	338	3,730	
Melrose	4,594	20	7	263	983	98	1,135	269	1,838	
No. Reading	1,473	7	0	128	80	77	860	28	293	
Reading	3,583	19	0	229	790	105	1,443	190	807	
Stoneham	5,622	28	0	132	1,334	106	1,977	115	1,900	
Wakefield	7,602	27	0	349	2,801	86	1,560	1,196	1,583	
Wilmington	10,304	362	6	180	6,163	249	1,807	97	1,440	
Winchester	4,039	24	0	363	879	374	693	177	1,529	
Woburn	14,852	61	0	554	4,916	723	5,509	346	2,743	

Table 6  
Covered Employment By  
CEIA Area  
1977

(continued)

	Total Employment	Agri-culture Forestry	Fishing Forestry	Mining	Construction	Contract Manufacturing	Manufacturing	Transp. Comm.	Utilities	Wholesale Retail	Trade	Finance Insurance	Real Estate	Services
Quincy	77,193	341	53	3,558	19,014	3,420	29,748	5,979	15,081					
Braintree	18,783	46	13	758	3,669	841	9,084	1,101	3,271					
Cohasset	1,336	6	0	45	127	16	657	80	405					
Hingham	5,230	60	13	208	1,537	175	2,341	249	647					
Holbrook	1,791	15	0	52	563	40	906	44	173					
Hull	671	18	0	61	1	41	376	27	150					
Milton	2,995	33	0	224	282	426	1,445	291	1,294					
Norwell	1,330	4	0	153	51	27	698	45	352					
Quincy	28,266	9	20	1,268	9,223	1,020	8,260	3,555	4,911					
Randolph	6,144	12	0	209	1,982	109	2,893	164	774					
Scituate	2,011	5	0	55	324	52	1,060	97	418					
Weymouth	8,633	133	7	525	1,255	673	3,028	326	2,686					
Salem	110,705	1,184	25	3,526	37,383	4,986	37,431	4,688	21,483					
Beverly	9,946	23	1	461	3,294	329	2,716	366	2,757					
Danvers	11,448	46	10	217	3,193	372	5,498	465	1,448					
Essex	552	5	0	26	101	15	364	14	27					
Gloucester	9,154	769	0	327	3,124	383	2,585	306	1,660					
Hamilton	479	12	0	91	1	21	217	10	127					
Ipswich	1,479	26	9	82	195	65	668	90	344					
Lynn	31,544	25	0	578	15,668	1,429	6,520	1,160	6,164					
Lynnfield	2,232	34	0	142	12	219	1,414	66	345					
Manchester	604	44	0	49	45	22	281	22	141					
Marblehead	2,958	28	0	151	796	98	1,025	149	711					
Middleton	955	24	4	53	536	38	136	11	153					
Nahant	328	4	0	55	4	1	136	4	124					
Peabody	11,993	40	2	337	3,847	559	4,726	818	1,664					
Rockport	1,084	5	0	57	182	26	497	49	268					
Salem	16,309	20	0	439	5,395	1,019	4,562	922	3,952					
Saugus	6,652	8	0	315	529	321	4,624	121	734					
Swampscott	2,084	45	0	109	79	59	1,181	85	526					
Topsfield	568	7	1	16	161	50	222	125	125					

Table 6  
Covered Employment By  
CEA Area  
1977  
(continued)

	Total Employment	Agri-culture	Fishing	Forestry	Mining	Construction	Contract	Manufacturing	Transp. Comm.	Utilities	Wholesale Trade	Retail Trade	Finance Insurance	Real Estate	Services
<u>Newton</u>	137,789	635	0		5,023		14,747	5,449	36,399		6,823		38,713		
<u>Bedford</u>	11,722	16	0		115		7,928	149	1,030		63		2,421		
<u>Brookline</u>	13,483	39	0		435		281	1,640	4,342		1,410		5,336		
<u>Dover</u>	211	11	0		39		0	1	109		8		43		
<u>Lexington</u>	11,854	47	0		255		4,733	726	2,652		411		3,030		
<u>Lincoln</u>	597	9	0		30		13	3	178		22		342		
<u>Needham</u>	10,518	146	0		1,973		2,969	237	4,131		341		1,621		
<u>Newton</u>	30,967	160	0		1,562		4,265	1,152	11,682		1,748		10,397		
<u>Waltham</u>	46,671	81	0		814		23,835	1,123	8,792		1,551		10,475		
<u>Wellesley</u>	9,615	75	0		447		646	344	2,832		1,036		4,234		
<u>Weston</u>	2,153	51	0		253		77	74	651		233		814		
<u>Norwood</u>	75,884	318	60		3,534		28,566	3,508	24,185		3,196		12,515		
<u>Bellingham</u>	1,193	16	0		136		205	28	685		11		112		
<u>Canton</u>	10,514	39	0		513		4,644	279	3,728		394		917		
<u>Dedham</u>	10,071	36	0		537		2,370	372	4,786		751		1,219		
<u>Foxborough</u>	6,653	10	0		92		4,892	74	960		125		500		
<u>Franklin</u>	2,874	31	0		146		1,057	74	897		77		592		
<u>Medfield</u>	11,940	55	0		920		1,634	837	4,426		338		3,730		
<u>Medway</u>	1,149	8	0		14		335	319	271		52		150		
<u>Millis</u>	1,210	14	17		46		683	27	264		12		147		
<u>Norfolk</u>	348	17	1		27		30	85	141		7		40		
<u>Norwood</u>	15,872	31	0		389		7,261	359	3,452		1,073		3,306		
<u>Plainville</u>	1,959	9	24		166		1,175	27	383		32		143		
<u>Sharon</u>	1,290	4	0		64		301	33	494		54		340		
<u>Walpole</u>	6,017	18	19		165		2,794	558	2,002		115		346		
<u>Westwood</u>	3,488	20	0		213		647	391	1,411		131		675		
<u>Wrentham</u>	1,306	10	0		106		538	45	285		24		298		

## Labor Turnover

During the month of February 1979 both total accessions and separations decreased substantially. The net flow into or out of employment which is the difference between total accessions and total separation recorded a zero balance during February.

The total accession rate fell to 2.6 down 0.8 from January, the result of a decline in both new hires and recalls. Nondurable goods firms posted a higher accession rate than did the durable goods firm, 2.9 as compared with 2.4. The apparel industry displayed the highest accession rate with 4.8 and fabricated metals industry the lowest with 1.3.

Total separations declined from 3.3 in January to 2.6 in February. Over the month the quit rate dropped from 1.4 to 1.1 while layoffs increased by 0.1 percent.

## Definitions

Labor Turnover:	Gross movement of wage and salary workers into and out of jobs with respect to individual firms.
Total Accessions:	All permanent or temporary additions, whether new or former employees.
New Hires:	Permanent or temporary additions of persons who not have been specifically recalled by the employer, or transferred from another establishment of the same firm.
Recalls:	Permanent or temporary additions to the <del>employment</del> roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than seven consecutive days.
Total Separations:	Terminations of employment resulting from quits, discharges, layoff, transfers to another establishment of the same company, military duty and other miscellaneous causes.
Quits:	Terminations of employment initiated by employee for any reason except to retire, to transfer to another establishment or the same company or to serve in the armed forces.
Layoffs:	Suspensions for pay status (which last or are expected to last more than seven consecutive calendar days) initiated by the employer without prejudice to the worker for such reasons as lack of orders, model changeover, or termination of seasonal employment.

Table 7  
Labor Turnover Rates 1/  
Manufacturing Industries  
Boston SMSA  
February 1979

	Accession Rates						Separation Rates					
	Total		New Hires		Recalls		Total		Quits		Layoffs	
	Feb '79	Jan '79	Feb '78	Jan '79	Feb '79	Jan '78	Feb '79	Jan '79	Feb '78	Jan '79	Feb '78	Jan '79
ALL MANUFACTURING	2.6	3.4	2.7	1.9	2.4	1.8	0.5	0.7	0.6	2.6	3.3	2.2
Durable Goods	2.4	2.8	2.5	2.0	2.3	1.7	0.2	0.1	0.6	2.6	2.9	2.2
Primary Metals	3.9	2.9	1.8	2.0	2.8	1.7	1.9	0.1	0.1	4.4	1.4	0.8
Fabricated Metals	1.3	1.4	1.6	1.2	1.3	1.4	0.1	0.1	0.1	2.3	1.9	1.1
Machinery (exc. electrical)	2.0	2.6	3.0	1.8	2.3	1.6	0.1	0.1	1.4	1.2	1.9	2.3
Elec. Machinery	2.8	3.8	2.4	2.3	2.9	1.9	0.2	0.2	0.2	3.5	2.7	1.7
Transp. Equipment	1.2	1.5	1.7	0.7	1.0	0.8	0.3	*	0.7	1.8	2.1	1.2
Instruments	2.7	3.4	2.9	2.4	2.7	1.8	0.2	0.2	0.4	2.4	4.3	1.8
Nondurable Goods	2.9	4.4	3.0	1.8	2.5	2.1	1.0	1.8	0.8	2.6	4.0	2.3
Food & Kindred	3.2	7.8	3.3	1.1	2.7	2.0	2.1	5.1	1.2	3.1	3.8	2.5
Textiles	2.1	3.2	2.2	1.5	1.8	2.1	0.6	1.3	*	2.6	3.6	2.2
Apparel & Other	4.8	7.1	4.3	2.5	2.7	2.9	2.1	4.2	1.4	2.5	6.5	3.4
Paper	2.9	2.2	2.5	1.1	1.7	1.1	1.7	0.2	1.3	0.2	4.5	1.7
Printing	2.2	3.0	2.4	2.0	2.6	2.0	0.1	0.3	0.2	1.8	3.6	2.1
Chemicals	1.5	1.7	1.9	1.3	1.3	1.7	0.1	0.0	0.2	2.2	1.4	1.2
Rubber	2.7	4.0	2.6	2.6	3.0	2.5	0.1	0.1	0.1	3.2	2.8	2.6
Leather	3.0	3.7	4.2	2.0	3.1	2.3	1.0	0.4	1.5	4.0	5.6	1.8

1/ Per 100 Employees

\* Less than 0.05

Average weekly hours for production workers in manufacturing industries in the Boston SMSA fluctuated throughout 1978, starting in January with 40.0 and ending the year with a December figure of 41.3, the highest level for the year. The lowest level was recorded in February with 35.0, as the effects of the blizzard were seen. Annual average weekly hours for the Boston SMSA compared favorably with the statewide annual average, 40.1 compared to 40.2 for the state.

Within the industry sectors durable goods producing firms had an annual average of 40.4 hours per week, with instruments having the highest level within the sector, recording 43.3 hours per week. The nondurable goods producing firms did not fare as well overall, averaging 39.6 hours per week for 1978. This sector had both the highest and lowest weekly hours for 1978, the high being in the textile industry with 44.7 and the low occurring in leather with 36.5.

Annual average 1978 hourly earnings for production workers in the Boston SMSA stood at \$6.09 per hour. The highest hourly wage was posted in the Transportation Equipment Industry within the durable goods sector, with an annual average of \$7.52 per hour. The lowest annual average hourly earnings occurred in the textile industry with \$4.06 per hour. The overall annual average of \$6.09 per hour was 9.9 percent higher than the statewide figure of \$5.54 per hour.

Table 8  
Average Weekly Hours and Hourly Earnings  
Massachusetts and Boston SMSA  
1978

	Average Hours		Average Hourly Earnings	
	Mass.	Boston SMSA	Mass.	Boston SMSA
January	40.2	40.0	\$5.36	\$5.86
February	37.0	35.0	5.43	6.05
March	40.7	40.6	5.43	5.97
April	40.6	40.6	5.42	6.00
May	40.3	40.5	5.48	5.99
June	41.0	41.0	5.50	6.04
July	40.0	39.6	5.52	6.08
August	40.1	39.9	5.59	6.08
September	40.8	41.3	5.63	6.19
October	39.6	39.8	5.67	6.18
November	40.7	41.3	5.70	6.26
December	41.2	41.3	5.77	6.33
Annual Average	40.2	40.1	5.54	6.09

Table 9  
 Hours and Earnings  
 Manufacturing Industries  
 Annual Averages  
 Boston SMSA  
 1978

Industry	Average Weekly Earnings	Average Weekly Hours	Average Hourly Earnings
Manufacturing	\$244.21	40.1	\$6.09
Durable Goods	256.54	40.4	6.35
Primary Metals	235.13	40.4	5.82
Fabricated Metals	256.62	42.0	6.11
Nonelectrical			
Machinery	259.20	40.0	6.48
Electrical Machinery	217.95	39.2	5.56
Transportation			
Equipment	277.49	36.9	7.52
Instruments	287.51	43.3	6.64
Nondurable Goods	224.53	39.6	5.67
Food	252.68	40.3	6.27
Textiles	217.24	44.7	4.86
Apparel	149.81	36.9	4.06
Paper	236.29	41.6	5.68
Printing	271.74	37.9	7.17
Chemicals	280.13	41.5	6.75
Rubber	219.14	39.7	5.52
Leather	159.87	36.5	4.38

The following table contains information on employment levels by industry for 1974 and projected 1985 levels. It is estimated that by 1985 approximately 107,150 new jobs will have been created in the Boston SMSA.

The largest gain due to growth will be in the service producing industries, in keeping with the general trend of a shift from a goods producing to a service producing economy. Within the service producing segment, the service industries will have the greatest gain in employment especially in the medical sector. Business services are also expected to experience rapid growth. Another expanding industry within this sector will be wholesale and retail trade, with an anticipated annual growth rate of 1.0 percent. Finance, Insurance and Real Estate will experience moderate growth during the eleven year period 1974-1985. Slight increases will be experienced in the transportation and public utilities and government payrolls.

The manufacturing sector is projected to experience a decrease in the number of jobs. Corresponding to the expected decrease in employment, there will be a decline in manufacturing's relative share of total employment. Although the durable goods producing industries are expected to have a positive growth rate, this effect will be more than offset by the declines in the nondurable goods industries resulting in an overall decline in manufacturing payrolls.

It is important to view these projections in terms of relative magnitude and general tendencies, rather than as actual employment levels. However use of this data as indicators of probable direction and relationships can be helpful to those concerned with studying labor demand within the Boston SMSA.

Table 10

**TOTAL EMPLOYMENT BY INDUSTRY ADJUSTED FOR CLASS OF WORKER**  
**1970 - 1974 - 1985**  
**BOSTON SMSA**

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1985	1970-1974	1974-1985
OVER, ALL INDUSTRIES	1,320,847	1,320,929	1,428,084	82	107,155
AGRICULTURE, FORESTRY, & FISHERIES					
Agriculture	6,352	7,726	7,081	1,374	-645
Agriculture Production	5,612	6,937	6,360	1,325	-577
Agriculture Services, Except Horticultural	2,053	3,329	2,418	266	-911
Horticultural Services	1,061	1,667	1,838	606	171
Forestry	1,488	1,341	2,104	453	163
Fishing	206	249	264	43	15
Other	534	540	457	6	-83
MINING	288	260	204	-28	-56
Nonmetallic Mining	1	1	1	0	0
Metallic Mining	1	1	1	0	0
Petroleum & Natural Gas Extraction	6	0	0	-6	0
Metallic Mining, & Quarrying, except Fuel	280	258	202	-22	-56
MANUFACTURING	72,553	70,524	75,600	-2,029	5,075
General Building Contractors	22,472	21,135	22,192	-1,237	1,007
Special Contractors, Except Building	14,069	13,795	13,659	-674	264
Trade Contractors	36,012	35,944	39,749	-58	3,805
Machinery Goods	294,119	273,293	268,826	-20,826	-4,467
Machinery	176,561	173,143	180,925	-3,418	7,782
Transportation Equipment	4,979	4,650	4,848	-329	198
Furniture & Wood Products, Except Furniture	1,663	1,575	1,349	-88	-225
Logging	33	27	24	6	-3
Sawmills, Planing Mills, & Mill Work	681	404	284	-187	-210
Miscellaneous Wood Products	949	1,054	1,041	105	-13
Furniture & Fixtures	3,210	2,781	2,357	-429	-124
Stone, Clay & Glass Products	3,197	3,884	4,691	887	207
Glass & Glass Products	160	265	188	105	-77
Cement, Concrete, Gypsum, & Plaster Products	1,378	1,520	1,719	142	199
Structural Clay Products	24	24	27	0	3
Pottery & Related Products	70	47	58	-23	11
Miscellaneous Nonmetallic Mineral & Stone Products	1,565	2,028	2,099	463	71
Primary Metal Production	3,257	3,893	3,242	636	-631
Blast Furnaces, Steel Works, Rolling & Fin. Mills	442	526	439	84	-87
Other Primary Iron & Steel Industries	1,147	1,711	1,091	164	-220
Primary Aluminum Industries	445	525	437	80	-88
Other Primary Nonferrous Industries	1,223	1,521	1,275	308	-255
Fabricated Metal Products	17,027	20,179	20,942	3,112	503
Cutlery, Hand Tools, & Other Hardware	4,510	6,392	7,259	1,882	867
Fabricated Structural Metal Products	4,153	5,783	4,754	270	11
Screw Machine Products	1,885	1,834	1,461	-51	-373
Metal Stamping	1,221	1,129	846	-92	-283
Misc. Fabricated Metal Products	5,258	6,401	6,982	1,143	581
Machinery, Except Electrical	35,410	37,909	40,013	2,499	2,104
Engines & Turbines	5,500	6,105	6,281	605	776
Farm Machinery & Equipment	74	102	100	28	-2
Construction & Material Handling Machines	1,356	800	606	-556	-194
Metalworking Machinery	2,147	2,690	2,571	543	-119
Office & Accounting Machines	1,001	1,422	1,742	421	220
Electronic Computing Equipment	8,010	11,257	13,785	3,247	2,528
Machinery, Except Electrical, N.E.C.	17,322	15,553	14,328	-1,789	-1,205

Table 10  
(continued)

BOSTON, MASS.

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1975	1970-1974	1974-75
Electrical Machinery, Equipment & Supplies	52,284	49,363	49,954	-2,921	591
Household Appliances	863	1,396	900	333	-296
Radio, TV, & Communication Equipment	16,127	16,048	16,167	-79	116
Electrical Machinery, Equip. & Supplies, N.E.C.	35,294	32,119	32,887	-3,175	761
Transportation Equipment	25,856	13,740	16,460	-12,116	2,721
Motor Vehicles & Motor Vehicle Equipment	3,210	2,027	3,451	-1,183	1,424
Aircraft & Parts	8,403	7,777	7,114	-626	-666
Ship & Boat Building & Repairing	14,137	3,834	5,778	-10,303	1,947
Railroad Locomotives & Equipment	0	0	0	0	0
Mobile Dwellings & Campers	17	17	20	0	3
Cycles & Misc. Transportation Equipment	89	85	97	-4	11
Prof., Scientific Inst., Photo. Equip. & Watches	23,107	30,529	32,920	7,422	2,391
Scientific & Controlling Instruments	8,892	10,546	11,107	1,654	561
Optical & Health Services Supplies	2,856	6,797	7,587	3,941	790
Photographic Equipment & Supplies	9,169	11,260	12,575	2,091	1,271
Watches, Clocks, & Clockwork Operated Devices	2,190	1,926	1,591	-264	-237
Miscellaneous Manufacturing Industries	6,571	4,680	4,789	-1,891	68
<b>NONDURABLE GOODS</b>					
Food & Kindred Products	117,558	100,150	87,901	-17,408	-12,246
Meat Products	22,656	17,525	13,702	-5,031	-3,927
Dairy Products	3,269	2,372	2,436	-597	576
Canning & Preserving	4,367	2,920	2,017	-1,447	-901
Grain Mill Products	1,413	1,164	973	-249	-19
Bakery Products	374	454	387	120	6
Confectionary & Related Products	4,246	3,831	3,012	-415	-814
Beverage Industries	4,112	2,610	1,357	-1,502	-1,555
Misc. Food Preparation & Kindred Products	2,109	1,483	1,750	-626	261
Tobacco Manufacturing	0	0	0	0	0
Textile Mill Products	6,341	5,530	4,521	-811	-1,000
Knitting Mills	1,229	1,173	582	-56	-59
Dyeing & Finishing Textiles, Excl. Wool & Knit Goods	101	168	162	67	8
Floor Coverings, Except Hard Surfaces	613	91	180	-522	8
Yarn, Thread, & Fabric Mills	1,319	1,358	945	39	81
Misc. Textile Mill Products	3,079	2,740	3,052	-339	57
Apparel & Other Fabricated Textile Products	17,216	13,927	11,057	-3,289	-2,571
Apparel & Accessories	13,650	10,857	7,908	-2,793	-2,949
Misc. Fabricated Textile Products	3,566	3,370	3,149	-196	7
Paper & Allied Products	11,046	10,471	9,675	-575	-79
Pulp, Paper, & Paperboard Mills	1,465	1,418	1,109	-47	-30
Paperboard Containers & Boxes	4,488	3,790	3,403	-686	-38
Misc. Paper & Pulp Products	5,093	5,263	5,163	170	10
Printing, Publishing, & Allied Products	26,683	23,733	23,866	-2,955	13
Newspaper Publishing & Printing	8,889	8,192	7,209	-497	-88
Printing, Publishing, & Allied Prod., Excl. Newspapers	19,009	15,541	16,657	-2,468	1,111
Chemicals & Allied Products	8,272	8,759	8,844	527	4
Industrial Chemicals	1,323	1,272	1,105	-51	-16
Plastics, Synthetic & Resins, Except Fibers	868	1,133	1,199	265	6
Synthetic Fibers	4	11	10	7	1
Drugs & Medicines	1,996	1,654	1,544	-342	-11
Soaps & Cosmetics	672	909	725	37	-18
Paints, Varnishes, & Related Products	84	100	80	16	-2
Agricultural Chemicals	2,585	2,837	2,956	252	11
Miscellaneous Chemicals	601	661	758	60	9
Petroleum & Coal Products	6	5	5	-1	0
Petroleum Refining	595	656	753	61	9
Misc. Petroleum & Coal Products	11,318	10,997	9,499	-211	-1,497
Rubber & Misc. Plastic Products	8,154	7,234	5,705	-920	-1,524
Rubber Products	3,264	3,763	3,794	499	3
Misc. Plastic Products					

TABLE 10 (Continued)  
BOSTON, SMEA

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1975	1970-1974	1974-1975
Leather & Leather Products	13,310	8,407	5,979	-4,803	-2,428
anned, Curried, & Finished Leather	3,274	2,597	1,101	-837	-1,296
Footwear, Except Rubber	9,468	5,501	4,508	-3,967	-993
Leather Products, Except Footwear	608	509	370	-99	-139
<b>TRANSPORTATION, COMMUNICATIONS &amp; OTHER PUBLIC UTIL.</b>	<b>82,481</b>	<b>80,637</b>	<b>83,156</b>	<b>-1,794</b>	<b>2,469</b>
Transportation, Total	46,307	42,743	44,320	-3,564	1,577
Roads, & Railway Express Services	4,473	3,286	2,533	-1,187	-653
al, Interurban Transit	11,531	12,431	12,956	900	525
Street Railways, Bus Line	8,174	8,466	8,951	292	485
taxicab Service	3,357	3,965	4,005	608	40
cking & Warehousing	18,079	16,211	17,391	-1,868	1,180
cking Service	16,948	15,121	16,220	-1,327	1,099
arehousing & Storage	1,151	1,090	1,171	-41	81
er Transportation	2,604	1,921	1,965	-683	44
Transportation	6,998	6,002	6,297	-996	295
elined	34	1	0	-33	-1
Transportation Services	2,588	2,891	3,078	303	187
nications, Utilities, & Sanitary Services	36,174	37,544	38,836	1,770	892
unications	23,098	25,302	25,532	2,204	230
elephone (Wire & Radio)	21,085	22,751	22,556	1,666	-15
legraph (Misc. Communications Service)	768	652	557	-116	-135
adio Broadcasting, TV	1,245	1,899	2,409	654	510
lities & Sanitary Services	13,076	12,642	13,204	-134	562
lectric Light & Power	6,281	5,529	5,812	-652	183
lectric-gas Utilities	235	131	144	-104	13
gas & Steam Supply Systems	2,827	2,242	2,959	15	97
ater Supply	1,182	1,131	1,186	-51	55
anitary Services	2,528	2,886	3,100	358	214
Other Utilities, N.E.C.	23	23	23	0	0
<b>2. &amp; RETAIL TRADE</b>	<b>309,923</b>	<b>309,011</b>	<b>341,871</b>	<b>-912</b>	<b>32,320</b>
Wholesale Trade	81,810	79,743	83,788	-2,067	5,045
Wholesale, Except Misc. Wholesale	57,921	55,114	58,769	-2,807	3,555
otor Vehicles & Equipment	4,663	4,588	4,997	195	159
Drugs, Chemicals, & Allied Products	4,479	3,933	4,161	-560	238
dry Goods & Apparel	5,285	6,064	6,329	779	265
Food & Related Products	12,591	10,956	10,759	-1,695	-837
Farm Products - Raw Materials	503	423	412	-75	-16
Electrical Goods	10,235	8,879	10,567	-1,356	1,688
Hardware, Plumbing	3,782	4,016	4,356	234	380
achinery Equipment Supplies	16,283	15,950	17,548	-333	1,558
Scalareus Wholesale Trade	23,889	24,629	26,019	740	1,390
Metals & Minerals, N.E.C.	2,651	2,528	2,759	-73	141
Petroleum Products	2,339	2,582	2,724	243	142
Scrap & Waste Material	1,374	1,557	1,636	163	99
Alcoholic Beverages	1,720	1,581	1,992	161	111
Paper & Paper Products	3,061	2,985	3,153	-76	168
Lumber & Construction Materials	2,772	2,851	2,969	59	158
Wholesale, N.E.C.	9,992	10,185	10,756	193	571
<b>IL TRADE</b>	<b>228,113</b>	<b>229,268</b>	<b>257,043</b>	<b>1,155</b>	<b>27,775</b>
ilding Materials	8,174	8,229	8,767	55	538
Limber, Building Material	5,972	6,041	6,328	69	287
Hardware & Farm Equipment	2,202	2,188	2,459	-14	251
General Merchandise, Total	50,248	42,666	50,629	-7,552	7,933
Department, Mail Order	37,979	32,365	38,356	-5,614	6,401
Limited Price Stores	5,734	3,392	2,557	-2,342	-375
Vending Machine Operators	1,393	1,268	1,788	-125	520
Direct Selling	2,408	2,516	3,613	108	1,097
Misc. Merchandise Stores	2,734	3,155	3,815	471	660

TABLE 10 (Continued)  
BOSTON, MASS.

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1985	1970-1974	1974
Food & Dairy Stores	41,329	40,356	43,283	-973	2
Grocery Stores	31,800	33,173	36,073	1,373	2
Dairy Product Stores	1,886	1,222	1,367	-664	
Retail Bakeries	2,608	2,442	1,960	-166	
Food Stores, N.E.C.	5,035	3,519	3,883	-1,516	
Auto Dealers, Gas Stations	20,694	20,544	22,010	-150	1
Motor Vehicle Dealers	9,473	10,050	10,483	577	
Tire, Battery, Accessory	1,554	1,872	2,194	328	
Gasoline Service Stations	9,155	7,903	8,513	-1,247	
Miscellaneous Vehicle Dealers	512	714	820	202	
Apparel & Accessories	15,976	17,564	18,696	1,528	1
Apparel, Accessories Stores	12,427	13,633	14,323	1,206	
Shoe Stores	3,549	3,931	4,373	392	
Furniture & Appliances	9,563	10,490	12,560	927	2
Home Furnishing Stores	5,252	5,352	5,571	100	
Appliance, TV, Radio Stores	4,311	5,158	6,289	827	1
Eating & Drinking Places	52,570	58,640	67,390	6,070	9
Misc. Retail Trade Stores	29,559	30,749	33,203	1,190	2
Drug Stores	7,435	7,084	7,053	-351	
Liquor Stores	3,420	3,479	3,659	59	
Farm, Garden Supply Stores	711	367	379	56	
Jewelry Stores	1,910	1,824	1,920	-86	
Fuel & Ice Dealers	4,002	4,083	3,571	81	
Retail Florists	1,013	1,227	1,440	214	
Misc. Retail Trade Stores	11,468	12,685	15,186	1,227	2
<b>FINANCE, INSURANCE, &amp; REAL ESTATE</b>					
Finance, Total	96,920	100,773	110,717	3,853	9
Banking	37,144	38,046	43,620	902	5
Credit Agencies	25,586	25,799	31,869	833	5
Stock Brokers, Investment	3,121	3,422	3,497	361	
Insurance	8,037	7,765	8,254	-272	
Real Estate, RE Law Insurance	46,036	45,726	43,646	-310	2
13,740	17,001	18,451	3,261	1	
<b>SERVICES, TOTAL</b>	385,280	413,619	473,429	28,339	59
<b>Hotels &amp; Lodging Places</b>	9,603	10,542	12,280	939	1
Hotels & Motels	8,051	8,331	10,240	780	1
Lodging Places, Except Hotels	1,552	1,711	2,040	159	
Other Personal Services	21,750	18,797	15,720	-2,953	-3
Laundry, Cleaning	9,775	7,679	5,292	-2,096	-2
Beauty Shops	6,718	6,015	5,921	-302	
Barber Shops	2,182	1,313	1,109	-364	
Shoe Repair Shops	399	269	179	-130	
Dressmaking Shops	392	366	372	-26	
Other Personal Services	2,884	2,849	2,887	-55	
Miscellaneous Business Services	51,019	55,992	60,810	4,973	1
Advertising	2,104	2,175	2,300	71	1
Business Management Services	4,218	4,325	4,479	107	1
Commercial R & D.	2,574	3,723	4,010	1,149	1
Computer Programming	2,941	2,811	3,066	-130	
Detective & Protective	2,536	2,634	2,581	-53	
Employment, Temporary Help	3,237	3,078	3,480	-159	
Services, Buildings	7,431	8,431	10,198	950	1
Other Misc. Business Services	25,928	25,815	30,756	2,837	1
Automobile Repair Services	8,353	9,059	9,588	705	
Auto Repair	4,263	5,065	5,248	802	1
Auto Services, Except Repair	4,090	3,954	4,440	-96	
Other Repair Services	4,036	4,610	5,303	574	1
Electrical Repair Shops	1,481	1,617	1,866	135	2
Other Repair Services	2,555	2,993	3,437	482	

TABLE 10 (Continued)  
BOSTON SMSA

INDUSTRY TITLE	EMPLOYMENT			NET CHANGE	
	1970	1974	1985	1970-1974	1974-1985
tion Pictures, Theatres	3,957	3,940	4,561	-17	621
Miscellaneous Entertainment	5,866	6,794	7,948	928	1,154
Bowling Alleys, Billiards	767	777	747	10	-50
Miscellaneous Entertainment	5,099	6,017	7,201	918	1,184
Medical, Other Health	107,057	122,146	150,087	15,039	27,541
Offices of Physicians	8,102	9,657	12,171	1,555	2,514
Offices of Dentists	5,405	6,351	8,867	926	2,556
Offices of Chiropractors	36	71	96	35	25
Hospitals	71,023	75,562	84,524	4,939	8,962
Convalescent Institutions	13,354	19,153	28,996	5,819	9,643
Health Practitioners, N.E.C.	1,808	2,327	3,255	519	928
Health Services, N.E.C.	7,349	8,645	11,778	1,296	3,173
Legal Services	9,646	10,805	11,546	1,159	741
Educational Services	100,306	106,429	123,938	6,123	22,589
Elementary, Secondary	49,403	56,134	66,533	6,731	10,609
College & Universities	43,263	42,316	53,474	-947	11,158
Libraries	2,387	2,720	3,150	353	470
Educational Services, N.E.C.	5,273	5,259	5,441	-14	182
Museums, Art Galleries, Zoos	979	1,209	1,345	230	136
Nonprofit Organizations	24,213	24,684	26,201	471	2,117
Religious Organizations	8,363	8,675	9,361	272	726
Welfare Services	8,853	8,796	9,559	-57	763
Residential Welfare	508	555	581	27	46
Nonprofit Membership	6,489	6,718	7,300	229	582
Private Households	14,446	11,583	9,066	-2,863	2,517
Other Professional Related Services	24,049	27,029	29,326	2,980	2,307
Engineering & Architectural Services	12,892	13,681	14,223	789	542
Accounting, Auditing	6,692	7,152	8,476	484	1,784
Misc. Professional Services	4,465	6,196	6,637	1,731	1,441
GOVERNMENT, TOTAL 1/	72,931	65,076	67,240	-7,895	2,204
Federal Public Admin.	31,458	25,450	25,280	-6,008	-173
Postal Service	17,658	13,740	12,742	-3,918	-998
Federal Public Admin.	13,800	11,710	12,558	-2,090	823
State Public Admin.	12,439	11,857	12,379	-582	982
Local Public Admin.	29,034	27,729	29,121	-1,305	1,392

Government workers involved in activities unique to government are classified in the public administrative industry. Government workers in agencies engaged in activities also carried on by private industry such as shipbuilding, education, and medical services, are classified in the appropriate industry category.

Table 11  
 Job Openings By Industry  
 Boston-Metro Job Bank  
 March 1979  
 (By 2-Digit SIC\* Code)

	Job Openings
<b>TOTAL ALL INDUSTRIES</b>	<b>5,602</b>
Agriculture, Forestry and Fishing (01-09)	53
Agriculture Production Corps (01)	3
Agriculture Production Livestock (02)	6
Agriculture Services (07)	41
Forestry (08)	2
Fishing, Hunting, Trapping (09)	1
Construction (15-17)	143
Building Construction (15)	29
Construction Other Than Building (16)	17
Construction Special Trades (17)	97
Manufacturing (20-39)	1,306
Durable Goods (24,25,32-39)	946
Lumber and Wood Products (24)	44
Furniture and Fixtures (25)	13
Stone, Clay, Glass Concrete Products (32)	23
Primary Metal Industries (33)	24
Fabricated Metal Products (34)	102
Machinery except Electrical (35)	213
Electrical and Electronic Machinery (36)	318
Transportation Equipment (37)	54
Instruments (38)	108
Miscellaneous Manufacturing (39)	47
Nondurable Goods (20-23, 26-31)	360
Food and Kindred Products (20)	40
Tobacco Manufacturers (21)	5
Textile Mill Products (22)	20
Apparel (23)	147
Paper and Allied Products (26)	30
Printing and Publishing (27)	54
Chemicals (28)	16
Petroleum Refining (29)	4
Rubber and Plastic Products (30)	31
Leather and Leather Products (31)	13

**Table 11**  
**Job Openings By Industry**  
**Boston-Metro Job Bank**  
**March 1979**  
**(By 2-Digit SIC\* Code)**  
**(continued)**

	<u>Job Openings</u>
Transportation, Communication, Utilities (40-49)	89
Railroad Transportation (40)	1
Local, Suburban Urban Passenger (41)	10
Motor Freight Transportation (42)	48
Water Transportation (44)	1
Pipe Lines except Natural Gas (46)	0
Transportation Services (47)	6
Communication (48)	16
Electric Gas and Sanitary Service (49)	7
Wholesale Trade (50-51)	289
Wholesale Trade Durable Goods (50)	189
Wholesale Trade Nondurable Goods (51)	101
Retail Trade (52-59)	597
Building Materials Hardware (52)	42
General Merchandise Stores (53)	134
Food Stores (54)	28
Automotive and Gasoline Service (55)	80
Apparel and Accessories (56)	36
Furniture and Home Furnishings (57)	26
Eating and Drinking Places (58)	202
Miscellaneous Retail (59)	49
Finance, Insurance, Real Estate (60-67)	226
Banking (60)	59
Credit Agencies (61)	20
Securities and Commodity Brokers (62)	4
Insurance (63)	76
Insurance Agents, Brokers (64)	27
Real Estate (65)	37
Holding and Other Investment Offices (67)	2

Table 11  
 Job Openings By Industry  
 Boston-Metro Job Bank  
 March 1979  
 (By 2-Digit SIC\* Code)  
 (continued)

	Job Openings
Services (70-89)	1,180
Hotel, Rooming Houses (70)	61
Personal Services (72)	60
Business Services (73)	322
Automotive Repair Services (75)	56
Miscellaneous Repair Services (76)	28
Motion Pictures (78)	2
Amusement and Recreation Services (79)	27
Health Service (80)	221
Legal Service (81)	15
Educational Services (82)	158
Social Services (83)	60
Museums Galleries, Zoos (84)	2
Membership Organizations (86)	61
Private Households (88)	34
Miscellaneous Services (89)	73
Public Administration (91-97)	1,719
Executive Legislative General Government (91)	1,479
Justice Public Order and Safety (92)	32
Public Finance Taxes, Monetary Policy (93)	14
Administration Human Resource Programs (94)	145
Admin. of Environmental and Housing (95)	23
Admin. of Economic Programs (96)	24
National Security and International (97)	2

\* SIC - Standard Industrial Classification

Source: Labor Market Information Analytical Table Series  
 U. S. Department of Labor

#### IV. Employment Developments and Outlook By Occupation

##### A. Employment Projections By Occupation

Long range trends for the Boston SMSA appear in table 12, which contains both 1974 employment levels and 1985 projected levels with annual average demand through the eleven year period. Updated national occupational change factors for 1970-1974 and 1974-1985 were utilized in updating the local matrix. These figures however, are not comparable with total employment since they are not adjusted for place of residence nor are they comparable with nonagricultural employment totals as they are adjusted for dual job holders, unpaid absences, all other nonagricultural employment and agricultural employment.

The total projected occupational demand requirements during 1974-1985 span of years is based on both the demand arising from industry growth and replacement needs expected as a result of death, retirement or other separations from the labor force. Over the eleven year period, clerical workers are expected to be the fastest growing occupational category with a projected annual growth rate of 7.6 percent. Especially significant within the category is the expected increase in stenographers, typists and secretaries, an anticipated increase of almost 19,000 over the period. Miscellaneous clerical occupations are also forecast to have high annual demand (3,121) over the period. Teachers show very little gain due to growth, with most of the demand over the period due to separations.

By 1985 health service workers will increase by 10,583 to comprise over 20 percent of all service workers. Growth will be especially strong among nursing aides, orderlies, attendants and practical nurses, with annual demand of 1,494 and 1,226 respectively. Declining occupations include farmers, farm workers, barbers, guards, sewers, stitchers, miscellaneous machine operatives, bookkeepers, file clerks, postal clerks, and telephone operators.

Total employment in the SMSA is projected to increase by 111,079 between 1974 and 1985 if economic trends continue. Nationwide projections reveal a similar trend although growth rates are larger than those locally.

TABLE 12

AVERAGE ANNUAL NUMBER OF JOB OPENINGS, BY OCCUPATION  
 DURING 1974 - 1985 PERIOD  
 BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due Separation
TOTAL, ALL OCCUPATIONS . . . . .	1,320,830	1,431,909	66,793	10,103	56,687
Professional, Technical, Kindred . . . . .	247,424	275,753	11,868	2,574	9,294
Engineers, Technical . . . . .	29,976	31,863	647	170	47
Engineers, Aero-Astronautical . . . . .	714	641	0	7	0
Engineers, Chemical . . . . .	714	720	9	0	1
Engineers, Civil . . . . .	3,987	3,999	95	1	1
Engineers, Electrical . . . . .	9,833	11,109	271	116	1
Engineers, Industrial . . . . .	4,927	5,041	92	16	6
Engineers, Mechanical . . . . .	4,517	5,024	125	44	44
Engineers, Metallurgical . . . . .	267	298	31	1	1
Engineers, Mining . . . . .	16	27	3	1	1
Engineers, Petroleum . . . . .	0	0	0	0	0
Engineers, Sales . . . . .	1,086	1,174	26	4	4
Engineers, Other . . . . .	3,915	3,870	58	4	1
Life & Physical Scientists . . . . .	4,595	4,813	128	28	2
Agricultural Scientists . . . . .	88	98	5	1	1
Atmospheric, Space Scientists . . . . .	91	102	2	1	1
Biological Scientists . . . . .	779	757	23	13	13
Chemists . . . . .	2,428	2,572	74	13	13
Geologists . . . . .	69	86	3	2	0
Marine Scientists . . . . .	6	9	0	0	0
Physicists & Astronomers . . . . .	1,101	1,154	20	5	1
Life, Physical Scientists, N.E.C. . . . .	35	45	1	1	1
Mathematical Specialists . . . . .	1,338	1,524	73	23	2
Actuaries . . . . .	523	640	25	11	11
Mathematicians . . . . .	329	374	45	6	6
Statisticians . . . . .	486	550	30	6	6
Engineers, Science Technicians . . . . .	20,051	23,309	671	299	2
Agricultural & Biological Technicians, Except Health . . . . .	297	319	14	2	1
Chemical Technicians . . . . .	1,789	1,866	49	20	11
Drafters . . . . .	7,148	8,100	201	87	11
Electrical & Electronic Technicians . . . . .	5,019	6,106	168	99	55
Industrial Engineering Technicians . . . . .	545	599	14	0	0
Mathematical Technicians . . . . .	0	0	0	0	0
Mechanical Engineering Technicians . . . . .	389	470	13	7	1
Surveyors . . . . .	203	209	24	10	1
Engineering, Science Technicians, N.E.C. . . . .	4,441	5,200	188	69	11
Medical Workers, Except Technicians . . . . .	36,194	40,939	2,493	431	2,006
Chiropractors . . . . .	49	64	3	1	1
Dentists . . . . .	2,155	2,988	173	76	10
Dietitians . . . . .	811	807	55	10	11
Optometrists . . . . .	455	607	30	14	10
Pharmacists . . . . .	2,735	2,740	105	101	101
Physicians, M.D. Osteopaths . . . . .	8,186	9,300	451	105	101
Podiatrists . . . . .	253	296	18	4	1
Registered Nurses . . . . .	18,789	19,917	1,152	105	1,241
Therapists . . . . .	2,467	3,715	279	113	113
Veterinarians . . . . .	257	377	16	11	6
Other Medical & Health Workers . . . . .	58	128	8	6	6

TABLE 12 (Continued)  
BOSTON, 1981

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to separations
Technologists & Technicians . . . . .	8,849	10,882	799	216	583
Medical Lab. Technologists & Technicians . . . . .	3,550	3,716	240	17	223
Medical Technologists & Technicians . . . . .	871	1,590	151	74	77
Medical Record Technologists & Technicians . . . . .	416	640	61	29	41
Medical Technologists & Technicians . . . . .	1,521	1,587	115	6	109
Medical Technologists & Technicians . . . . .	71	108	8	3	5
Medical Health Technologists & Technicians . . . . .	2,080	3,141	224	96	128
Technicians, Except Health . . . . .	2,260	2,994	120	67	53
Airplane Pilots . . . . .	561	591	30	3	5
Traffic Controllers . . . . .	188	211	6	2	4
Altimeters . . . . .	165	146	2	-2	4
Flight Engineers . . . . .	70	72	0	0	0
Radio Operators . . . . .	516	349	12	3	9
Computer Programmers, Numerical . . . . .	59	54	1	-1	1
Computer Technicians, Except Health . . . . .	901	1,571	91	61	30
Computer Specialists . . . . .	8,998	10,953	384	178	206
Computer Programmers . . . . .	5,821	6,657	231	94	157
Computer Systems Analysts . . . . .	2,715	3,516	116	73	43
Computer Specialists . . . . .	462	580	17	11	6
Mathematical Scientists . . . . .	4,610	5,223	165	56	109
Economists . . . . .	2,652	3,123	99	43	55
Political Scientists . . . . .	127	90	0	-3	3
Psychologists . . . . .	1,449	1,526	49	7	42
Biologists . . . . .	39	51	2	1	1
Urban & Regional Planners . . . . .	286	304	6	3	3
Social Scientists . . . . .	77	129	9	5	4
Artists . . . . .	51,328	52,979	2,561	150	2,411
Elementary Education Teachers . . . . .	1,259	1,518	74	24	50
College & University Teachers . . . . .	10,589	10,500	257	83	285
Elementary School Teachers . . . . .	15,968	16,857	1,112	81	1,031
Elementary School & Kindergarten Teachers . . . . .	3,302	3,524	216	20	196
Secondary School Teachers . . . . .	14,752	14,900	563	13	555
Teachers, N.E.C., Except Colleges & Universities . . . . .	5,458	5,680	224	20	14
Performers, Artists, & Entertainers . . . . .	20,966	22,994	804	185	619
Performers . . . . .	190	212	24	11	13
Performers & Kindred Workers . . . . .	1,326	1,475	40	14	25
Performers . . . . .	975	713	-5	-24	19
Performers . . . . .	117	157	11	4	7
Performers . . . . .	3,030	3,169	96	13	83
Performers & Reporters . . . . .	4,090	4,420	78	30	48
Performers & Reporters . . . . .	2,260	2,702	141	40	101
Performers & Reporters . . . . .	3,559	3,804	164	22	142
Photographers . . . . .	1,302	1,363	60	6	34
Public Relations Specialist . . . . .	2,005	2,151	86	13	73
Radio & TV Announcers . . . . .	262	292	7	3	4
Performers, Artists, & Entertainers, N.E.C. . . . .	1,849	2,436	122	53	69
Professional & Technical . . . . .	58,639	67,210	3,053	779	2,274
Accountants . . . . .	17,748	19,567	761	165	596
Architects . . . . .	2,358	2,459	69	11	83
Archivists & Curators . . . . .	296	378	22	7	15
Archivists & Curators . . . . .	2,511	2,778	81	24	57
Archivists & Curators . . . . .	1,119	1,326	51	19	32
Management Advisors . . . . .	22	14	0	-1	1

TABLE 12 (Continued)  
BOSTON, SMA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
Foresters & Conservationists . . . . .	73	83	3	1	2
Home Management Advisors . . . . .	64	54	3	-1	4
Judges . . . . .	142	151	13	1	12
Lawyers . . . . .	8,578	9,397	476	93	383
Librarians . . . . .	2,986	3,116	197	12	186
Operations, Systems Research . . . . .	2,126	3,204	135	68	37
Personal Labor Relations . . . . .	5,267	5,617	206	52	174
Research Workers, N.E.C. . . . .	5,961	8,036	433	189	244
Recreation Workers . . . . .	1,931	2,351	157	38	99
Social Workers . . . . .	5,620	5,979	354	53	321
Vocational, Education Counselors . . . . .	2,057	2,700	112	38	54
Managers, Officials, & Proprietors . . . . .	152,165	161,704	5,708	868	4,840
Buyers, Sales, & Loan Managers . . . . .	29,990	36,505	1,567	601	966
Bank, Financial Managers . . . . .	8,824	10,461	438	149	289
Credit Managers . . . . .	1,554	1,900	103	31	72
Buyers, Shippers, Farm Products . . . . .	194	228	9	3	6
Buyers, Wholesale, Retail . . . . .	3,456	4,654	278	109	169
Purchasing Agents, Buyers, N.E.C. . . . .	3,717	4,501	185	71	114
Sales Manager, Retail Trade . . . . .	5,322	6,687	294	124	170
Sales Manager, Except Retail Trade . . . . .	6,923	8,174	260	114	146
Administrators, Public Inspectors . . . . .	12,540	13,773	587	113	474
Assessors, Controllers, Local Public Administration . . . . .	302	275	21	4	23
Construction Inspectors, Public Administration . . . . .	298	305	17	1	16
Health Administrators . . . . .	3,422	3,981	227	51	176
Inspectors, Except Construction, Public Admin. . . . .	1,282	1,450	55	15	40
Officials & Administrators, Public Admin. . . . .	3,405	3,555	123	56	132
Postmasters & Mail Superintendents . . . . .	204	179	1	6	7
School Administrators, College . . . . .	1,049	1,270	35	20	15
School Administrators, Elementary & Secondary . . . . .	2,578	3,020	105	40	65
Other Managers, Officials, & Proprietors . . . . .	109,635	111,326	3,554	154	3,400
Funeral Directors . . . . .	683	654	27	-3	50
Managers, Superintendents, Building . . . . .	1,722	2,153	140	39	101
Office Managers, N.E.C. . . . .	5,772	6,806	534	94	237
Officers, Pilots, Purfers, Ship . . . . .	273	285	11	1	10
Officials of Lodges, Unions . . . . .	1,113	1,043	38	-6	44
Railroad Conductors . . . . .	209	253	10	4	5
Restaurant, Cafe & Bar Managers . . . . .	7,348	8,100	174	23	111
Other Managers & Administrators, N.E.C. . . . .	92,015	92,032	2,863	2	2,861
Sales Workers . . . . .	92,686	101,223	4,779	777	4,002
Advertising Agents, Sales Workers . . . . .	1,115	1,308	63	18	45
Auctioneers . . . . .	18	13	0	0	0
Demonstrators . . . . .	400	616	47	20	27
Bucketters & Peddlers . . . . .	1,181	1,535	94	32	62
Insurance Agents, Brokers, etc. . . . .	8,818	9,170	39	13	287
Newspaper Carriers & Vendors . . . . .	682	539	-1	-13	12
Real Estate Agents, Brokers . . . . .	6,606	6,835	239	21	518
Stock & Bond Sales Agents . . . . .	2,572	2,527	87	4	91
Sales & Sales Workers, N.E.C. . . . .	71,294	78,680	3,871	671	3,160

TABLE 12 (Continued)  
BOSTON, SMA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
1. Workers	294,203	334,521	22,433	3,665	18,768
Graphers, Typists & Secretaries	92,090	110,919	9,337	1,713	7,624
Secretaries, Legal	2,762	3,560	332	73	259
Secretaries, Medical	3,597	4,985	410	90	320
Secretaries, Other	60,710	76,227	6,569	1,411	5,158
Photographers	1,232	732	28	5	73
Listers	23,789	25,815	1,998	184	1,814
2. Machine Operators	15,510	14,597	602	-65	667
Ticketing, Billing Operators	1,183	1,054	53	-12	65
Calculating Machine Operators	714	707	45	-1	46
Computer, Peripheral Equipment Operators	5,642	6,478	202	76	126
Simplifying Machine Operators	452	384	14	6	20
Punch Operators	5,839	4,550	217	-117	374
Simplifying Machine Operators	44	22	-1	-2	1
Other Office Machine Operators	1,436	1,402	72	-3	75
3. Clerical Workers	186,803	209,005	12,494	2,017	10,477
Bank Tellers	5,547	6,121	410	22	388
Billing Clerks	2,937	3,852	299	63	216
Checkers	29,577	28,734	1,749	-164	1,853
Clerks	18,717	19,958	1,322	13	1,209
Clerical Assistants, Social Welfare	228	260	19	3	16
Clerical Supervisors, N.E.C.	3,704	4,325	221	56	165
Collectors, Bill & Account	911	921	39	1	38
Counter Clerks, Except Food	5,520	6,334	411	70	341
Delivery Clerks, Stampers, Vehicle	1,558	1,886	84	54	34
Instructors & Interviewers	715	623	23	38	38
Inspectors, Investigators, N.E.C.	7,593	8,515	428	56	36
Editors, Production Controllers	3,952	4,777	201	57	126
File Clerks	7,279	6,755	447	-47	494
Insurance Adjusters & Examiners	3,429	3,729	143	27	116
Library Attendants & Assistants	3,443	3,899	257	41	246
Mail Carriers, Post Office	4,500	4,370	32	-39	71
Mail Handlers, Except Post Office	4,023	4,512	235	-44	191
Messenger & Office Helpers	1,771	1,455	62	-39	91
Meter Readers, Utilities	459	411	2	-14	6
Milk, Time Keeping Clerks	3,288	3,746	254	42	212
Postal Clerks	6,323	5,720	109	-55	164
Postal Clerks	705	739	50	3	47
Proofreaders	427	460	33	3	27
Real Estate Appraisers	6,591	7,724	657	153	556
Receptionist	10,411	11,350	571	155	356
Shipping, Receiving Clerks	6,136	5,864	328	-25	353
Statistical Clerks	7,496	8,588	554	28	256
Stock Clerks, Storekeepers	1,943	3,264	234	129	105
Teachers' Aides, Except Monitors	38	15	-1	-2	1
Teletype Messengers	199	189	6	3	92
Teletype Operators	9,616	7,890	435	-157	82
Ticket Station & Express Agents	2,087	2,141	57	5	82
Upholsters	203	230	10	2	8
Miscellaneous Clerical Workers, N.E.C.	25,267	39,928	3,121	1,333	1,788

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Total Demand	Labor Demand 1974 - 1985	
				Due to Growth	Due to Separation
Craft & Kindred Workers . . . . .	148,501	157,575	4,085	825	3,260
Construction Crafts Workers . . . . .	42,966	47,592	1,230	420	860
Carpenters & Apprentices . . . . .	13,761	14,917	452	105	247
Brick & Stonemasons & Apprentices . . . . .	2,070	2,318	60	23	37
Bulldozer Operators . . . . .	543	703	24	15	9
Cement & Concrete Finishers . . . . .	713	810	16	9	7
Electricians & Apprentices . . . . .	7,112	7,920	157	73	24
Excavating, Grading & Machine Operators . . . . .	1,716	2,141	63	25	25
Floor Layers, Except Tile Setters . . . . .	434	439	8	4	8
Painters & Apprentices . . . . .	6,413	6,456	184	180	180
Paperhangers . . . . .	561	629	29	23	12
Plasterers & Apprentices . . . . .	546	491	7	5	12
Plumbers, Pipefitters & Apprentices . . . . .	5,798	6,790	184	80	74
Roofers & Slaters . . . . .	1,194	1,587	55	34	21
Structural Metal Craft Workers . . . . .	1,431	1,721	45	25	23
Tilesetters . . . . .	674	690	12	1	11
Blue-Collar Worker Supervisors, N.E.C. . . . .	19,311	20,802	656	136	528
Metalworking Craft Workers, Except Mechanics . . . . .	15,201	15,510	320	82	301
Blacksmiths . . . . .	36	32	1	1	1
Boilermakers . . . . .	269	300	4	1	6
Heat Treaters, Annealers, & Temperers . . . . .	225	178	2	1	1
Forge & Hammer Operators . . . . .	82	88	1	1	1
Job & Die Setters, Metal . . . . .	705	811	23	10	15
Machinists & Apprentices . . . . .	7,604	7,700	153	95	149
Millwrights . . . . .	607	657	20	14	15
Molders & Apprentices, Metal . . . . .	360	317	2	1	6
Pattern & Model Makers . . . . .	566	446	6	11	17
Rollers & Finishers, Metal . . . . .	76	76	2	1	2
Sheetmetal Workers & Apprentices . . . . .	2,938	3,047	55	20	49
Tool & Diemakers & Apprentices . . . . .	1,733	1,853	47	11	36
Mechanics, Repairers, & Installers . . . . .	35,457	40,004	1,065	415	650
Air Cond., Heating, & Refrig. Mechanics & Repairers . . . . .	3,602	4,488	144	81	63
Aircraft Mechanics . . . . .	925	989	15	6	9
Auto Accessories Installers . . . . .	94	97	1	0	1
Auto Body Repairers . . . . .	2,458	2,500	4	4	27
Auto Mechanics & Apprentices . . . . .	10,962	12,013	24	86	188
Data Processing Machine Repairers . . . . .	837	1,185	55	32	38
Farm Implement Mechanics . . . . .	453	609	27	14	13
Heavy Equipment Mechanics Including Diesel . . . . .	8,030	8,510	29	44	175
Household Appliance Mechanics . . . . .	1,681	1,893	53	20	33
Loco Fixers . . . . .	4	5	0	0	0
Office Machine Repairers . . . . .	1,118	1,530	52	37	55
Radio & Television Repairers . . . . .	1,872	2,599	109	86	43
Railroad & Car Shop Repairers . . . . .	271	259	6	1	8
Other Mechanics & Apprentices . . . . .	3,145	3,322	84	16	83
Printing Trade Craft Workers . . . . .	7,502	6,943	140	52	191
Bookbinders . . . . .	693	870	29	22	32
Composition & Typesetters . . . . .	2,879	2,266	23	13	79
Electrotypers & Stereotypers . . . . .	53	32	1	1	6
Engravers, Except Photoengravers . . . . .	202	154	2	1	6
Photoengravers & Lithographers . . . . .	749	817	25	14	19
Pressmen, Plate Printers & Apprentices . . . . .	2,926	3,004	61	6	54

TABLE 12(Continued)  
BOSTON, S.M.A.

OCCUPATIONS	Employ- ment 1974	Employ- ment 1975	Annual Labor Demand 1974 - 1975		
			Total Demand	Due to Growth	Due to Separations
ortation, Public Utility Crafts . . . . .	9,760	9,600	83	-6	89
ectric Power Line Installers & Repairers . . . . .	1,070	1,170	22	-8	14
otive Engineers . . . . .	258	305	10	4	6
otive Engineers Helpers . . . . .	29	14	-1	-1	0
er Station Operators . . . . .	200	161	-1	-1	5
phone Installers & Repairers . . . . .	7,559	7,391	63	3	80
phone Line Installers & Splicers . . . . .	836	698	-12	-16	4
 Crafts, Kindred Workers . . . . .	 18,304	 17,025	 531	 -118	 649
ers . . . . .	2,106	1,719	30	-35	66
netmakers . . . . .	780	650	10	-12	22
et Installers . . . . .	607	693	13	8	5
le, Derrick, & Hoist Operators . . . . .	1,743	1,688	32	-6	37
ators & Window Dressers . . . . .	1,065	1,105	34	4	38
al Laboratory Technicians . . . . .	578	520	17	-6	22
iture & Wood Finishers . . . . .	417	380	11	-4	15
ders . . . . .	63	58	3	0	3
ders . . . . .	442	544	10	0	9
ectors, Log & Lumber . . . . .	25	7	-1	-2	1
ectors, Other . . . . .	1,797	1,686	46	-10	36
lers & Watchmakers . . . . .	584	558	4	-4	0
ers, Grain, Flour, Feed . . . . .	15	20	5	0	10
on Picture Projectionists . . . . .	194	209	19	1	13
cians, Lens Grinders & Polishers . . . . .	828	1,360	83	58	35
o & Organ Tuners & Repairers . . . . .	179	200	14	2	12
ifitters . . . . .	177	190	5	0	4
Repairers . . . . .	502	253	-5	-1	25
Painters & Letterers . . . . .	219	458	17	6	23
hinary Engineers . . . . .	1,922	1,425	12	-5	57
ie Cutters & Stone Carvers . . . . .	156	159	7	0	7
ors . . . . .	1,273	1,042	45	-21	66
listers . . . . .	676	683	30	1	29
it & Kindred Workers, N.S.C. . . . .	1,556	1,438	37	-8	57
 es . . . . .	 159,282	 155,749	 5,184	 -318	 5,502
ives, Except Transportation . . . . .	119,378	115,333	4,304	-365	4,669
skilled Metal Working . . . . .	12,885	12,888	39	0	39
l Press Operators . . . . .	228	784	18	0	27
ace Tenders, Smelters, & Pourers, Metal . . . . .	254	269	9	0	9
ding Machine Operatives . . . . .	1,067	1,038	25	-3	28
ters, Metal . . . . .	18	7	-1	-1	0
ne & Milling Machine Operatives . . . . .	1,871	1,715	29	-14	43
al Platers . . . . .	624	711	25	8	17
er Precision Machine Operatives . . . . .	1,091	1,058	24	-3	27
ch & Stamping Press Operatives . . . . .	1,042	975	30	6	36
carers . . . . .	1,179	793	16	-35	51
ders & Flame Cutters . . . . .	4,841	5,538	164	63	101
 dilled Textile . . . . .	 1,204	 782	 5	 -38	 43
ding, Lapping, & Combing Operatives . . . . .	49	17	-1	-3	2
ters, Loopers, & Topers . . . . .	105	74	-3	-6	3
mers, Twisters, & Winders . . . . .	112	68	1	4	5
vers . . . . .	62	46	2	1	3
er Textile Operatives . . . . .	876	617	6	-24	30

TABLE 12 (Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separation
Semiskilled Packing, Inspecting . . . . .	23,027	22,612	1,028	-38	1,066
Checkers, Examiners, & Inspectors, Mfg. . . . .	9,546	10,311	494	70	424
Graders & Sorters, Manufacturing . . . . .	280	207	7	-7	14
Meat Wrappers, Retail Trade . . . . .	1,437	1,603	102	15	87
Packers & Wrappers, Except Meat & Produce . . . . .	11,603	10,321	416	-117	533
Produce Graders & Packers, Except Factory & Farm . . . . .	161	170	9	1	8
Other Operatives, Except Transportation . . . . .	82,262	79,051	2,932	-289	3,221
Asbestos & Insulation Workers . . . . .	438	676	31	22	9
Assemblers . . . . .	16,252	17,516	861	115	746
Blasters . . . . .	43	34	0	-1	1
Bottling & Canning Operatives . . . . .	487	442	15	-4	19
Surveyor Helpers . . . . .	69	65	0	-9	0
Clothing Ironers & Pressers . . . . .	1,877	1,187	11	-65	74
Cutting Operatives, N.E.C. . . . .	3,018	2,917	108	-9	117
Dressmakers, Except Factory . . . . .	1,428	1,237	84	-17	101
Drillers, Earth . . . . .	195	174	3	-2	5
Dry Wall Installers, & Lathers . . . . .	408	428	2	2	4
Dyers . . . . .	101	88	1	-1	2
Fileers, Polishers, Sanders, & Buffers . . . . .	1,014	1,021	33	1	32
Garage Workers & Gas Station Attendants . . . . .	4,364	3,846	7	-47	54
Laundry & Dry Cleaning Operatives, N.E.C. . . . .	2,760	2,491	129	-24	144
Meat Cutters & Butchers, Except Mfg. . . . .	3,498	3,200	75	-27	102
Meat Cutters, Butchers . . . . .	540	499	11	-1	15
Milliners . . . . .	39	26	2	-1	3
Mine Operatives, N.E.C. . . . .	34	19	0	-1	1
Mixing Operatives . . . . .	875	782	11	-63	19
Oilers & Greasers, Except Auto . . . . .	315	240	0	-7	7
Painters, Manufactured Articles . . . . .	1,233	1,215	33	-2	35
Photographic Process Workers . . . . .	2,619	2,846	132	21	111
Riveters & Fasteners . . . . .	357	370	18	1	17
Sailors & Deckhands . . . . .	195	201	4	1	3
Sawyers . . . . .	248	212	7	-3	10
Sewers & Stitchers . . . . .	9,195	7,354	344	-167	211
Shoemaking Machine Operatives . . . . .	1,493	1,042	24	-41	65
Furnace Tenders & Stokers, Except Metal . . . . .	1,151	984	29	-15	44
Winding Operatives, N.E.C. . . . .	878	1,078	57	18	39
Miscellaneous Machine Operatives . . . . .	15,115	14,284	425	-76	501
Operatives, N.E.C. . . . .	12,023	12,577	480	50	430
Transportation Equipment Operatives . . . . .	39,904	40,416	880	47	833
Boat Operators . . . . .	59	57	1	-1	1
Bus Drivers . . . . .	3,791	3,891	134	9	125
Conductors & Operators, Urban Rail Transit . . . . .	626	645	14	2	12
Delivery & Route Workers . . . . .	10,236	10,329	186	8	173
Fork Lift & Tow Motor Operators . . . . .	2,215	2,472	58	24	34
Rail Vehicle Operators, N.E.C. . . . .	4	4	0	0	0
Parking Attendants . . . . .	891	796	31	-9	8
Railroad Brake Operators . . . . .	309	375	8	2	6
Railroad Switch Operators . . . . .	169	243	14	7	7
Taxicab Drivers & Chauffeurs . . . . .	5,227	5,225	168	0	168
Truck Drivers . . . . .	16,377	16,419	266	4	262
Service Workers . . . . .	173,185	192,286	11,528	1,738	9,790
Cleaning Service Workers . . . . .	31,854	36,749	2,665	444	1,321
Lodging Quarters Cleaners, Except Private Household . . . . .	2,301	2,745	225	40	185
Building Interior Cleaners, N.E.C. . . . .	11,928	14,957	1,062	275	787
Janitors & Sextons . . . . .	17,625	19,047	978	129	849

TABLE 12(Continued)  
BOSTON, MASS

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Annual Labor Demand 1974 - 1985		
			Total Demand	Due to Growth	Due to Separations
d Service Workers . . . . .	60,261	66,702	3,642	586	3,056
attenders . . . . .	3,650	4,152	129	46	83
aiter's Assistants . . . . .	2,459	2,620	51	15	36
cooks, Except Private . . . . .	10,993	13,216	631	202	479
dishwashers . . . . .	3,661	4,059	170	36	134
od Counter & Fountain Workers . . . . .	11,329	11,702	647	34	613
aiters . . . . .	20,123	22,520	1,404	218	1,266
od Workers, N.E.C., Except Private . . . . .	8,046	8,433	480	35	445
h Service Workers . . . . .	29,648	40,236	3,338	963	2,375
ental Assistants . . . . .	2,119	2,844	277	66	211
health Aides, Except Nursing . . . . .	3,597	4,246	345	77	268
alth Trainees . . . . .	587	122	4	42	38
ay Midwives . . . . .	0	0	0	0	0
nusing Aides, Orderlies, & Attendants . . . . .	14,556	19,398	1,442	431	1,063
actical Nurses . . . . .	8,889	13,626	1,226	431	795
nal Service Workers . . . . .	19,641	21,348	1,466	157	1,339
ight Attendants . . . . .	1,279	1,461	165	17	148
ttendants, Recreation & Amusement . . . . .	743	817	56	7	39
ttendants, Personal Service, N.E.C. . . . .	1,277	1,270	88	1	88
uggage Porters & Bellhops . . . . .	320	262	0	5	5
arbers . . . . .	1,803	1,185	7	-56	63
boarding & Lodging Housekeepers . . . . .	523	603	58	7	51
oothblacks . . . . .	5	1	0	0	0
hild Care Workers, Except Private . . . . .	2,794	4,329	337	140	257
Elevator Operators . . . . .	735	459	17	-27	44
airdressers, Cosmetologists . . . . .	6,348	6,633	457	28	429
ousekeepers, Except Private . . . . .	1,839	1,843	109	0	109
School Monitors . . . . .	641	943	56	27	39
ishers, Recreation & Amusement . . . . .	390	371	9	-2	11
elfare Service Aides . . . . .	944	1,191	77	22	55
active & Service Workers . . . . .	24,023	23,060	581	-88	669
Crossing Guards & Bridgetenders . . . . .	910	776	47	-12	38
ire Fighters . . . . .	6,853	7,050	113	17	36
Guards . . . . .	7,230	5,847	262	-125	383
Marshals & Constables . . . . .	59	55	4	1	3
Police & Detectives . . . . .	8,460	8,844	128	35	93
Sheriffs & Bailiffs . . . . .	506	478	27	-3	30
ata Household Workers . . . . .	7,758	4,191	206	-324	530
Child Care Workers . . . . .	3,109	1,558	64	-141	205
Cooks, Private . . . . .	287	161	11	-11	22
Housekeepers, Private . . . . .	954	539	29	-38	67
Laundermen, Private Household . . . . .	36	12	1	-2	3
Cleaners & Servants, Private Household . . . . .	3,372	1,921	101	-132	233
ers, Except Farm . . . . .	50,397	51,550	1,224	104	1,120
Animal Caretakers, Except Farm . . . . .	1,398	1,908	112	46	66
Carpenters, Helpers . . . . .	956	1,031	19	7	12
Construction Laborers, Excl. Carpenter's Help. . . . .	9,272	9,127	122	-13	135
Fishers, Hunters, & Trappers . . . . .	316	281	4	-3	7
Freight, Material Handlers . . . . .	8,096	8,180	164	8	156

TABLE 12(Continued)  
BOSTON, SMSA

OCCUPATIONS	Employ- ment 1974	Employ- ment 1985	Total Demand	Due to Growth	Annual Labor Demand 1974 - 1985
					Due to Separation
Garbage Collectors . . . . .	813	1,047	38	21	17
Gardeners & Groundskeepers, Except Farm . . . . .	5,503	5,705	223	18	20
Longshore Workers & Stevedores . . . . .	821	887	28	6	23
Timbercutting & Logging Workers . . . . .	76	55	-1	-2	1
Stock Handlers . . . . .	13,614	14,511	730	82	248
Teamsters . . . . .	17	10	0	-1	1
Vehicle Washers & Equipment Cleaners . . . . .	2,564	2,602	38	3	61
Warehouse Laborers, N.E.C. . . . .	2,030	1,721	5	-28	33
Other Laborers . . . . .	4,921	4,485	111	-40	15
 Farmers & Farm Workers . . . . .	2,987	1,558	-46	-130	21
Farmers & Farm Managers . . . . .	780	795	-7	-35	5
Farmers (Owners & Tenants) . . . . .	651	274	-10	-34	24
Farm Managers . . . . .	129	121	3	-1	4
 Farm Laborers, Farm Supervisors . . . . .	2,207	1,163	-39	-95	56
Farm Labor Supervisors . . . . .	165	129	3	-3	5
Farm Laborers, Wage Workers . . . . .	1,918	918	-47	-91	44
Farm Laborers, Unpaid Family . . . . .	107	100	4	-1	1
Farm Laborers, Self-employed . . . . .	17	16	1	-1	0

### B. Labor Demand - Supply By Occupation

Information regarding labor supply and demand is available through analysis of Job Bank listings and ESARS tables. Job openings that are posted with the Employment Service are processed and distributed through a central computerized system known as Job Bank. From this system we are able to obtain on a monthly basis an occupational breakdown of openings along with some wage data concerning these openings. The Employment Service Automated Reporting System (ESARS) is the computerized information gathering service for applicants or what can be considered the supply side of the occupational job market. Although analysis of this data is useful when studying labor market conditions, certain limitations of the data sources should be noted. Both Job Bank and ESARS give information only on those openings and applicants that come into the Employment Services Offices, thus reflecting only a portion of the market.

Many additional job openings exist for which firms conduct their own recruitment by use of classified ads, private employment agencies or in house job bidding procedures. In addition, for those jobs that are listed with the Job Bank, wage information may not accurately reflect the pay rate of the position as many openings are listed with a minimum pay rate rather than what may actually be paid once the position is filled. Information on applicants that is available through ESARS can sometimes include double counting of individuals, as some applicants register for work in more than one of the local offices. Also when applicants are entered into the ESARS system they are listed under an occupational code, however many times an individual is capable of accepting work in more than one occupation and this multi skill characteristic of applicants is not reflected in ESARS occupational data.

Table 13 gives a detailed breakdown of active applicants and job openings for the Boston area for the month of January 1979. Analysis of the ratio of applicants to openings for particular occupational categories can be useful to manpower planners in determining those occupations in which either a shortage or surplus of workers may exist.

Table 14 lists job openings for the Boston area by occupational group for the fourth quarter 1978. For each of the three months shown clerical and sales occupations accounted for the largest percentage of total job listed. Structural work was second followed closely by professional, technical and related and service occupations. As to be expected for the area, farming, fishing and forestry had the least number of openings.

A comparison of job openings and average pay by occupational category statewide and for the five Job Bank areas in the state for March 1979 appears in Table 15. Overall the Boston-Metro Job Bank area had the largest number of jobs listed and the highest average pay.

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
	<b>TOTAL</b>	49,204	5,296	9-1
0,1	<u>Professional, Technical, Related</u>	6,316	957	14-1
00,01	Architecture Engineering	451	203	2-1
003	Electrical Electronic Engineering	97	53	2-1
007	Mechanical Engineering	89	33	3-1
012	Industrial Engineering	77	28	3-1
017	Drafting and Related	30	6	5-1
02,	<u>Mathematics and Physical Sciences</u>	154	65	2-1
020	Mathematics	78	38	2-1
022	Chemistry	28	9	3-1
023	Physics	11	5	2-1
04	<u>Life Sciences</u>	376	51	7-1
041	Biological Sciences	52	6	7-1
045	Psychology	314	43	7-1
07	<u>Medicine and Health</u>	698	120	6-1
070	Physicians and Surgeons	2	4	1-2
075	Registered Nurses	231	55	4-1
076	Therapists	30	8	4-1
078	Medical and Dental Technology	108	22	5-1
09	<u>Education</u>	770	65	12-1
090	College and University Education	119	10	12-1
091	Secondary School Education	227	13	17-1
092	Primary School Education	196	10	19-1

Table 13  
 Boston SMEA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
16	<u>Administrative Specialization</u>	1,351	163	8-1
160	Accountants & Auditors	198	42	5-1
161	Budget & Management Analysis	20	8	2-1
162	Purchasing Management	117	6	19-1
165	Public Relations Management	78	8	10-1
166	Personnel & Training Administration	134	30	4-1
18	<u>Managers and Officials</u>	1,284	107	12-1
183	Manufacturing Industry Management	78	6	13-1
185	Wholesale Retail Trade Management	327	16	20-1
186	Finance, Insurance, Real Estate Management	123	11	11-1
187	Service Industry Mgmt.	347	29	12-1
19	<u>Miscellaneous Professional Technical Managerial</u>	509	165	3-1
195	Social & Welfare Work	381	121	3-1
2	<u>Clerical and Sales</u>	10,790	1,789	6-1
20	<u>Stenography Typing Filing &amp; Related</u>	4,264	1,070	4-1
201	Secretaries	854	221	7-1
203	Typists	1,187	352	3-1
206	File Clerks	944	20	47-1
21	<u>Computing and Account Recording</u>	2,808	261	11-1
210	Bookkeepers & Bookkeeping Machine Operators	443	55	8-1
211	Cashiers and Tellers	948	44	21-1
216	Accounting & Statistical Clks	289	70	4-1

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
22	<u>Production and Stock Clerks</u>	885	205	4-1
222	Shipping, Receiving, and Stock Clerks	822	123	7-1
29	<u>Miscellaneous Sales Occupations</u>	453	47	9-1
290	Sales Clerks	217	5	43-1
292	Route Sales & Delivery	56	14	4-1
299	Misc. Sales Occupations Not Elsewhere Classified	137	19	7-1
3.	<u>Service</u>	6,662	808	8-1
31	<u>Food and Beverage Preparation &amp; Service</u>	2,632	321	8-1
311	Waiter/Waitress	1,291	82	16-1
313	Chefs & Cooks -Hotels and Restaurants	413	70	6-1
318	Kitchen Workers n.e.c.	411	114	4-1
37	<u>Protective Service Occup.</u>	386	138	3-1
372	Security Guards Correction Officers	267	119	2-1
38	<u>Building &amp; Related Service Occupations</u>	737	139	5-1
381	Porters and Cleaners	462	81	6-1
382	Janitors	238	53	4-1

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979  
 (continued)

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
4	<u>Farming, Fishery, Forestry and Related</u>	511	14	36-1
40	Plant Farming Occupation	423	13	32-1
406	Gardening and Grounds- keeping Occupations	108	3	36-1
408	Plant Life and Related Services	265	8	33-1
5	<u>Processing</u>	486	55	9-1
52	<u>Processing Food, Tobacco and Related Products</u>	204	13	15-1
520	Mixing, Blending, Shaping and Related	12	3	4-1
526	Cooking and Baking Occup.	64	8	8-1
55	<u>Chemicals, Plastics, Synthetics Rubber Paint</u>	80	11	7-1
556	Casting & Molding Occupations	14	2	7-1
559	Processing of Chemicals and Related Products n.e.c.	27	8	3-1
58	<u>Processing Leather, Textiles and Related Products</u>	79	2	39-1
580	Shaping, Blocking, Stretching	2	1	2-1
589	Leather, Textiles and Related Products	38	1	38-1
6	<u>Machine Trades</u>	1,669	374	4-1
60	Metal Machining	332	120	3-1
600	Machinists & Related	113	53	2-1
601	Toolmaking & Related	16	12	1-1
604	Turning	27	11	2-1
609	Metal Machining Occup. n.e.c.	121	22	5-1
62	<u>Mechanics and Machinery Repair</u>	504	78	6-1
620	Motor Vehicle & Engineering Equip. Repair	412	65	6-1
626	Metalworking Machinery Mechanics	2	1	2-1

Table 13  
 Boston SMSA Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

(continued)

		Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
7.	<u>Bench Work</u>	1,789	407	4-1
70	<u>Metal Products Fabrication</u> <u>Assembly and Repair</u>	246	88	3-1
701	Fab., Assembly, Repair of Tool and Related	6	2	3-1
706	Metal Unit Assembly and Adjusting	190	65	3-1
72	<u>Assembly and Repair of</u> <u>Electrical Equipment</u>	634	189	3-1
723	Occupations in Electrical Appliance & Fixtures Assembly & Repair	48	35	1-1
726	Assembly & Repair of Electronic Components and Accessories	402	106	4-1
729	Assembly and Repair of Electrical Equipment n.e.c.	103	29	3-1
78	Fabrication & Repair of Textile Leather and Related	544	65	8-1
780	Upholstering, Fabrication Repair of Mattress-Beds	50	17	3-1
785	Tailoring, Dressmaking	39	5	8-1
787	Machine Sewing Operators Nongarment	126	29	4-1
8	<u>Structural</u>	3,316	408	8-1
80	<u>Occupations in Metal</u> <u>Fabrications</u>	288	71	4-1
804	Tinsmiths, Coppersmiths, Sheet Metal Workers	63	26	2-1
807	Body Work Transportation Equipment	113	26	4-1
81	<u>Welders Cutters and</u> <u>Related Occupations</u>	214	18	12-1
810	Arc Welders and Cutters	138	8	17-1
86	<u>Construction Occup. n.e.c.</u>	1,722	181	9-1
860	Carpentry and Related	402	39	10-1
862	Plumbers, Gas Fitting Steam Fitting Occup.	202	20	10-1
869	Misc. Construction Occup.	874	93	9-1

Table 13  
 Boston SME Active Applicants  
 Boston-Metro Job Bank Openings  
 By Selected Occupational Categories  
 January 1979

(continued)

	Active* Applicants Available	Job** Openings	Ratio Applicants To Openings
9. <u>Miscellaneous</u>	4,958	484	10-1
90 <u>Motor Freight</u>	1,055	131	8-1
904 Trailer Truck Driving	118	7	17-1
905 Heavy Truck Driving	454	33	13-1
906 Light Truck Driving	400	85	4-1
92 <u>Package Material Handling</u>	3,190	233	13-1
920 Packaging Occupations	707	56	12-1
922 Material Moving and Storage Occupations	839	80	10-1
929 Packaging, Material Handling n.e.c.	1,511	87	17-1

\* Source: ESARS Table 96

\*\* Source: Labor Market Information Analytical Table Series  
 U. S. Department of Labor

Table 14  
 Job Openings By Occupational Group  
 Boston-Metro Job Bank  
 4th Quarter 1978

		October	November	December
	<b>TOTAL</b>	8,203	9,932	7,534
0,1	Professional, Technical & Related	1,127	1,500	1,379
00,01	Architechture & Engineering	133	189	176
07	Medicine and Health	88	154	142
16	Administrative Specializations	230	293	268
18	Managers & Officials	135	187	144
2	Clerical and Sales	2,648	2,876	1,950
20	Stenography Typing Filing	1,613	1,694	1,122
21	Computing & Account Recording	343	398	337
22	Production & Stock Clerks	175	207	174
29	Miscellaneous Sales Occupations	55	127	54
3	Service	1,165	1,329	1,019
31	Food & Beverage Preparation	534	638	486
35	Personal Service Occupations	105	114	117
38	Building Service Occupations	170	184	144
4	Farming, Fishing, Forestry	66	42	20
5	Processing	126	117	64
6	Machine Trades	544	587	449
60	Metal Machining	204	178	146
62	Mechanics & Repairers	147	143	101
65	Printing Occupations	32	36	36
7	Benchwork	436	434	337
70	Metal Products	69	53	37
72	Electrical Equipment	159	187	133
78	Textiles & Leather	96	84	97
8	Structural Work	1,228	2,070	1,566
80	Metal Fabrication	139	117	78
86	Construction Occupations	425	1,306	1,234
9	Miscellaneous	863	977	750
90	Motor Freight Occupations	127	175	169
92	Packaging and Material Handling	579	641	432

Source: Labor Market Information Analytical Table Series  
 U. S. Department of Labor

Table 15  
Job Duty Operations  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	State	Lawrence	Boston Metro	Springfield	Taunton	Worcester
	Total Average Openings	Average Pay	Total Average Openings	Total Average Pay	Total Average Openings	Total Average Openings
<b>Total All Occupations</b>	<b>21,671</b>	<b>\$ 8,245</b>	<b>4,041</b>	<b>\$ 8,152</b>	<b>5,602</b>	<b>\$ 8,028</b>
<b>Prof., Tech., Managerial</b>	<b>3,793</b>	<b>10,291</b>	<b>733</b>	<b>9,394</b>	<b>1,046</b>	<b>12,032</b>
<b>Architect. &amp; Engineering</b>	<b>193</b>	<b>11,682</b>	<b>40</b>	<b>12,131</b>	<b>138</b>	<b>16,878</b>
<b>Math. &amp; Physical Sci.</b>	<b>119</b>	<b>13,841</b>	<b>16</b>	<b>13,265</b>	<b>61</b>	<b>16,485</b>
<b>Social Sciences</b>	<b>27</b>	<b>11,055</b>	<b>8</b>	<b>9,007</b>	<b>8</b>	<b>14,350</b>
<b>Medicine &amp; Health</b>	<b>296</b>	<b>11,051</b>	<b>19</b>	<b>9,560</b>	<b>79</b>	<b>12,033</b>
<b>Education</b>	<b>396</b>	<b>9,409</b>	<b>61</b>	<b>8,936</b>	<b>107</b>	<b>10,152</b>
<b>Museum, Library</b>	<b>95</b>	<b>8,909</b>	<b>19</b>	<b>8,061</b>	<b>9</b>	<b>10,158</b>
<b>Law, Jurisprudence</b>	<b>18</b>	<b>10,038</b>	<b>1</b>	<b>10,110</b>	<b>1</b>	<b>13,069</b>
<b>Writing</b>	<b>17</b>	<b>9,658</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>10,120</b>
<b>Art</b>	<b>51</b>	<b>9,646</b>	<b>4</b>	<b>9,398</b>	<b>18</b>	<b>10,442</b>
<b>Entertainment</b>	<b>67</b>	<b>9,407</b>	<b>20</b>	<b>8,946</b>	<b>9</b>	<b>9,159</b>
<b>Administrative Spec.</b>	<b>667</b>	<b>10,141</b>	<b>125</b>	<b>9,689</b>	<b>205</b>	<b>11,265</b>
<b>Managers</b>	<b>532</b>	<b>10,416</b>	<b>103</b>	<b>9,504</b>	<b>157</b>	<b>12,125</b>
<b>Misc., Prof., Tech., Mgr</b>	<b>820</b>	<b>8,981</b>	<b>229</b>	<b>8,823</b>	<b>163</b>	<b>9,556</b>
<b>Clerical Sales</b>	<b>4,362</b>	<b>7,537</b>	<b>854</b>	<b>7,594</b>	<b>1,579</b>	<b>7,767</b>
<b>Steno, Typing &amp; Rel.</b>	<b>2,486</b>	<b>7,538</b>	<b>467</b>	<b>7,616</b>	<b>859</b>	<b>7,767</b>
<b>Computing Acc't, Recor.</b>	<b>973</b>	<b>7,611</b>	<b>116</b>	<b>7,794</b>	<b>276</b>	<b>7,998</b>
<b>Production &amp; Stock Clerk</b>	<b>315</b>	<b>7,425</b>	<b>65</b>	<b>7,294</b>	<b>123</b>	<b>7,554</b>
<b>Information Distr.</b>	<b>296</b>	<b>7,166</b>	<b>39</b>	<b>7,124</b>	<b>79</b>	<b>7,375</b>
<b>Misc. Clerical</b>	<b>301</b>	<b>7,619</b>	<b>75</b>	<b>7,611</b>	<b>18</b>	<b>8,247</b>
<b>Salespersons, Services</b>	<b>68</b>	<b>9,888</b>	<b>12</b>	<b>8,915</b>	<b>19</b>	<b>9,628</b>
<b>Miscellaneous Sales</b>	<b>282</b>	<b>6,737</b>	<b>24</b>	<b>7,238</b>	<b>98</b>	<b>6,789</b>
<b>Service</b>	<b>3,653</b>	<b>3,62/hr.</b>	<b>577</b>	<b>3,57/hr.</b>	<b>906</b>	<b>3,66/hr.</b>
<b>Food &amp; Beverage Prep.</b>	<b>901</b>	<b>3,36</b>	<b>154</b>	<b>3,31</b>	<b>291</b>	<b>3,48</b>
<b>Misc. Personal Svcs.</b>	<b>886</b>	<b>3,67</b>	<b>74</b>	<b>3,52</b>	<b>120</b>	<b>3,56</b>
<b>Protective Services</b>	<b>684</b>	<b>3,72</b>	<b>151</b>	<b>3,70</b>	<b>113</b>	<b>3,32</b>
<b>Building &amp; Related</b>	<b>798</b>	<b>3,88</b>	<b>144</b>	<b>3,80</b>	<b>288</b>	<b>4,12</b>

Table 15  
Job Bank Openings  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	State			Lawrence			Boston Metro			Springfield			Wellesley		
	Total Openings	Average Pay	Openings Pay	Total Openings	Average Pay	Openings Pay	Total Openings	Average Pay	Openings Pay	Total Openings	Average Pay	Openings Pay	Total Openings	Average Pay	Openings Pay
<u>Farming, Fishing, Forestry</u>															
Plant Farming	777	\$3.77/hr		108	\$3.91/hr		113	\$4.30/hr		211	\$3.44/hr.		204	\$3.82/hr	
Animal Farming	610	3.72		73	3.82		69	4.30		170	3.41		161	3.69	
Mac. Agriculture	19	3.47		3	3.51		1	4.70		7	3.37		5	3.30	
Fishing	4,00	4.00		0	0		0	0		0	0		1	4.64	
Forestry	139	4.68		29	4.15		43	4.17		34	3.62		32	4.48	
<u>Processing</u>															
Ore Refining, Foundry	499	3.79		100	3.74		68	3.86		168	4.27		83	3.50	
Paper	35	3.97		4	3.44		7	3.74		14	4.57		8	3.19	
Food, Tobacco	70	3.73		17	3.52		21	3.37		7	5.22		13	3.73	
Petroleum Coal, Gas	4	4.32		2	3.89		0	0		2	4.76		0	0	
Chem., Plas., Synthetics	2	3.00		0	0		2	3.00		0	0		0	0	
Wood & Wood Products	150	3.71		36	3.92		12	4.33		16	3.89		13	3.15	
Stone, Clay, Glass, Concrete	3	3.50		0	0		0	0		0	0		0	0	
Leather & Textiles	37	3.43		5	3.06		2	3.00		19	3.56		7	3.37	
Machine Trades	93	3.97		15	3.96		2	3.63		34	4.59		17	3.70	
Metal Machining	1,715	4.09		308	3.90		365	4.45		284	4.07		313	3.92	
Metal Working	482	4.09		64	4.09		112	4.54		94	4.61		78	4.66	
Mechanics & Repair	311	3.57		39	3.42		61	3.72		53	3.53		95	3.68	
Printing	313	4.59		15	4.66		107	5.03		68	4.24		46	4.23	
Wood Machining	88	3.76		6	3.40		19	4.15		23	3.29		17	3.68	
Textiles	55	3.91		5	5.75		7	4.00		2	3.31		17	3.56	
	170	3.52		63	3.74		14	3.37		11	3.04		44	3.37	

Table 42  
Job Bank Openings  
Average Pay by Occupational Category  
Massachusetts Job Banks  
March 1979

	State		Lawrence		Boston Metro		Springfield		Tantum		Worcester	
	Total Openings	Average Pay										
<u>Benchwork</u>	1,501	\$3.42/hr	247	\$3.26/hr	431	\$3.73/hr	110	\$3.27/hr	431	\$3.22/hr	252	\$3.35/hr
Metal Products	137	\$3.19	9	\$3.53	33	\$3.71	20	\$3.65	58	\$3.23	17	\$3.52
Electrical Equipment	520	\$3.44	138	\$3.15	173	\$3.72	103	\$3.68	118	\$3.09	43	\$3.69
Plastics Syn. Rubber	28	\$3.52	4	\$4.19	3	\$4.50	2	\$3.00	8	\$3.51	11	\$3.11
Wood Products	82	\$3.13	6	\$3.71	7	\$5.63	4	\$3.17	4	\$3.13	61	\$3.19
Textile, Leather	563	\$3.27	76	\$3.12	150	\$3.41	54	\$3.18	207	\$3.28	76	\$3.22
<u>Structural</u>	2,160	\$4.32	693	\$4.36	453	\$4.61	339	\$4.17	601	\$4.05	305	\$4.46
Metal Fabrication	159	\$4.30	22	\$4.50	56	\$4.43	17	\$4.34	36	\$3.72	28	\$4.61
Welders	95	\$4.48	16	\$4.18	23	\$5.33	15	\$4.17	24	\$3.83	17	\$4.81
Electrical	164	\$4.69	45	\$4.08	47	\$4.64	18	\$5.27	26	\$4.23	28	\$5.84
Painting	166	\$4.65	38	\$4.50	51	\$4.66	28	\$5.00	30	\$4.10	19	\$5.31
Excavating, Grading etc.	22	\$4.86	4	\$4.77	1	\$6.00	5	\$4.60	2	\$4.50	10	\$4.99
Construction n.e.c.	1,245	\$4.35	390	\$4.44	201	\$4.72	133	\$4.08	313	\$4.19	158	\$4.26
<u>Miscellaneous</u>	2,311	\$3.60	421	\$3.53	641	\$3.80	372	\$3.57	413	\$3.46	164	\$3.54
Motor Freight	351	\$4.09	87	\$3.97	81	\$4.02	14	\$4.32	63	\$4.04	76	\$4.20
Packing, Material Hand.	1,584	\$3.48	260	\$3.40	483	\$3.76	263	\$3.50	263	\$3.16	315	\$3.39
Prod. Distribution of Utilities	81	\$4.36	5	\$4.16	9	\$5.11	8	\$4.76	46	\$4.19	13	\$4.31
Graphic Art Work	50	\$3.94	15	\$4.06	12	\$3.87	6	\$3.35	8	\$4.35	9	\$3.83

## V. Unemployment Trends and Characteristics

Seasonal variations aside, the unemployment rate for the Boston SMSA decreased steadily in 1978 for an annual average of 5.9 percent down from 7.8 percent in 1977. By dipping below 6.0 percent for the first time since 1971, the Boston SMSA annual average rate reflected the continuing decline in both the statewide and national rates.

The unadjusted rate declined from a high of 7.0 percent in January to a low of 4.2 percent in October an indication of the improvement of the economy within the SMSA. It then edged up in November and December following seasonal trends.

Total employment which is measured by a monthly survey of households rose by 52,646 to 1,286,446. In contrast to the annual average growth in total employment, total unemployment declined by 25,668. As a result, the total civilian labor force grew to 1,366,478.

Tables 21 and 22 contain information on claims activities in the Boston SMSA for 1978 and the first quarter 1979. The data for both initial claims and continued weeks claimed is for the survey week of each month.

For both initial and continued weeks claimed certain trends appeared including the seasonality of unemployment. High claim levels during the winter months are generally due to cutbacks in industries sensitive to weather conditions, such as contract construction. Seasonal increases in claims appear in summer months, particularly when manufacturing establishments shut down for July vacations. Despite these seasonal fluctuations in claims activities a gradual downward pattern is reflected in the 1978 over the year figures. In comparing first quarter 1978 and first quarter 1979, a slight decrease can be seen for both initial and continued claims in 1979. A downward to stabilizing pattern emerges after discounting the abnormally high February 1978 claim load which can be attributed to the month's severe weather conditions that caused the shut down of many of the establishments in the SMSA.

Claim loads, of course, are only part of the total unemployment picture. There are unemployed individuals who are not included in the claimant activity data. However, claims data does reflect general trends in unemployment and can be a useful tool in analyzing labor market conditions.

Table 16  
Unemployment  
Boston SMSA  
1978

	Employment	Unemployment	Labor Force	Unemployment Rate
January	1,265,323	94,013	1,359,336	7.0
February	1,257,770	90,586	1,348,356	6.8
March	1,275,537	78,932	1,354,469	5.9
April	1,271,224	75,160	1,346,384	5.6
May	1,278,422	73,003	1,351,425	5.4
June	1,314,219	97,370	1,411,589	6.9
July	1,317,903	88,031	1,405,934	6.3
August	1,298,404	93,012	1,391,416	6.7
September	1,265,989	76,908	1,342,897	5.7
October	1,291,988	56,902	1,348,890	4.2
November	1,301,040	65,700	1,366,740	4.8
December	1,299,536	70,767	1,370,303	5.2
Annual Average	1,286,446	80,032	1,366,478	5.9

Table 17  
 Unemployment Rates  
 For  
 Boston SMSA-Massachusetts-United States  
 1970-1978

	Boston SMSA	Massachusetts	United States
<b>Period</b>			
1970	4.0	4.6	4.9
1971	5.7	6.6	5.9
1972	6.5	6.4	5.6
1973	6.9	6.7	4.9
1974	7.1	7.2	5.6
1975	10.5	11.2	8.5
1976	9.1	9.5	7.7
1977	7.8	8.1	7.0
<b>1978</b>			
January	6.9	7.5	7.0
February	6.7	7.1	6.9
March	5.8	6.2	6.6
April	5.6	5.7	6.0
May	5.4	5.4	5.5
June	6.9	6.9	6.2
July	6.3	6.3	6.3
August	6.7	6.7	5.8
September	5.7	5.8	5.7
October	4.2	4.3	5.4
November	4.8	5.2	5.5
December	5.2	5.7	5.6
Annual Average	5.9	6.1	6.0
<b>1979</b>			
January	7.0	7.5	6.4
February	6.1	6.6	6.4
March	6.1	6.7	6.1

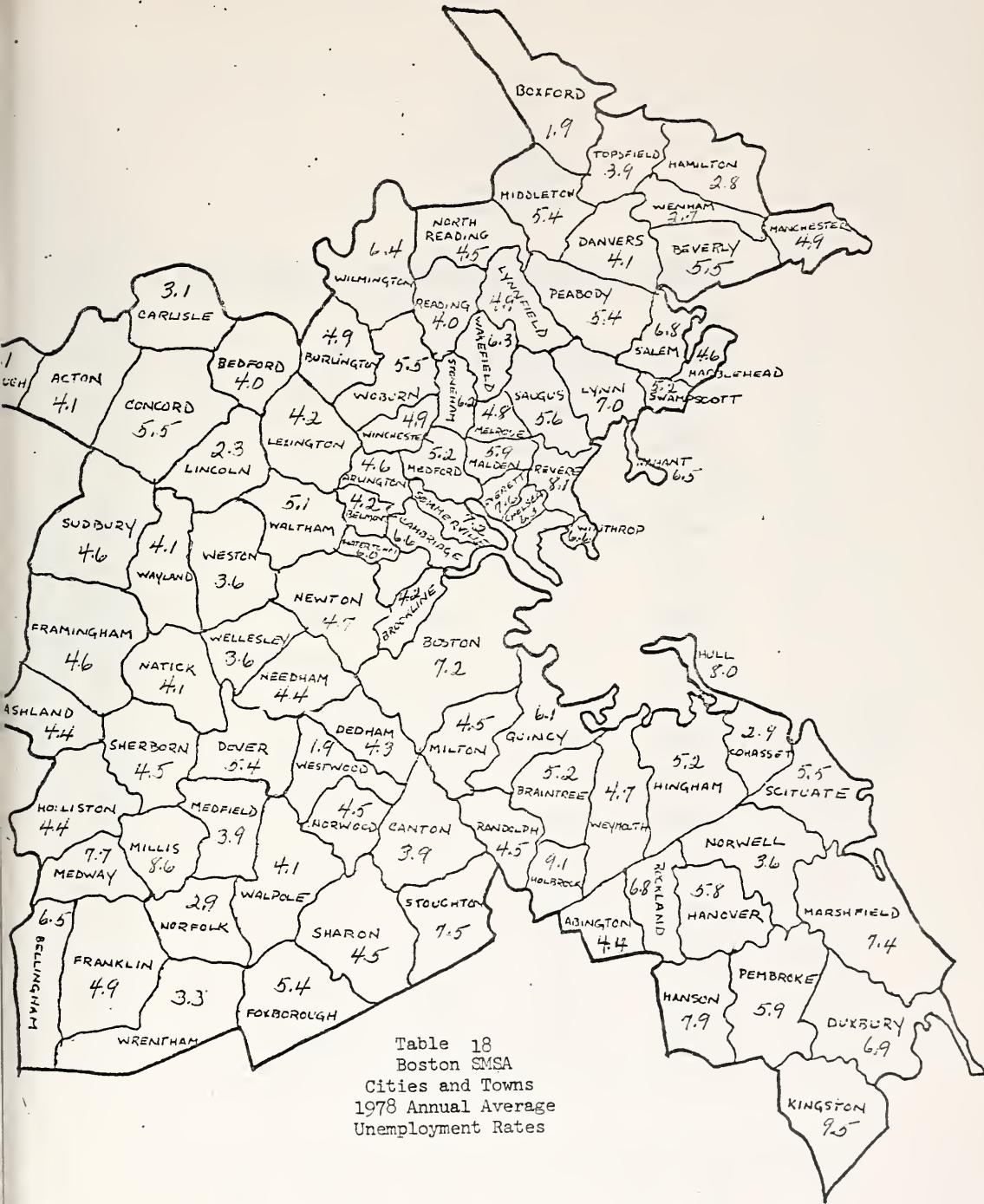


Table 18  
Boston SMSA  
Cities and Towns  
1978 Annual Average  
Unemployment Rates

Table 19  
 Unemployment Rates  
 By  
 CETA Area  
 1977 - 1978

Area	Employed	Unemployed	Labor Force	Rate
<u>1978</u>				
Boston	288,164	22,337	310,501	7.2
Chelsea	41,681	3,265	44,946	7.3
EMHRDA	148,456	9,764	158,220	6.2
Medford	165,566	9,932	175,498	5.7
Newton	154,502	7,163	161,665	4.4
Norwood	74,176	3,721	77,897	4.8
Quincy	131,989	7,539	139,528	5.4
Salem	190,549	11,834	202,383	5.8
<u>1977</u>				
Boston	276,463	29,092	305,555	9.5
Chelsea	39,988	4,253	44,241	9.6
EMHRDA	142,428	12,717	155,145	8.1
Medford	158,843	12,935	171,778	7.5
Newton	148,229	9,329	157,558	5.9
Norwood	71,183	4,844	76,027	6.4
Quincy	126,630	9,819	136,449	7.2
Salem	183,031	14,918	197,940	7.5

Table 20  
UNEMPLOYMENT RATES  
FOR

BOSTON SMSA (SOLID) VS MASS (DASH) VS U.S. (DOT)

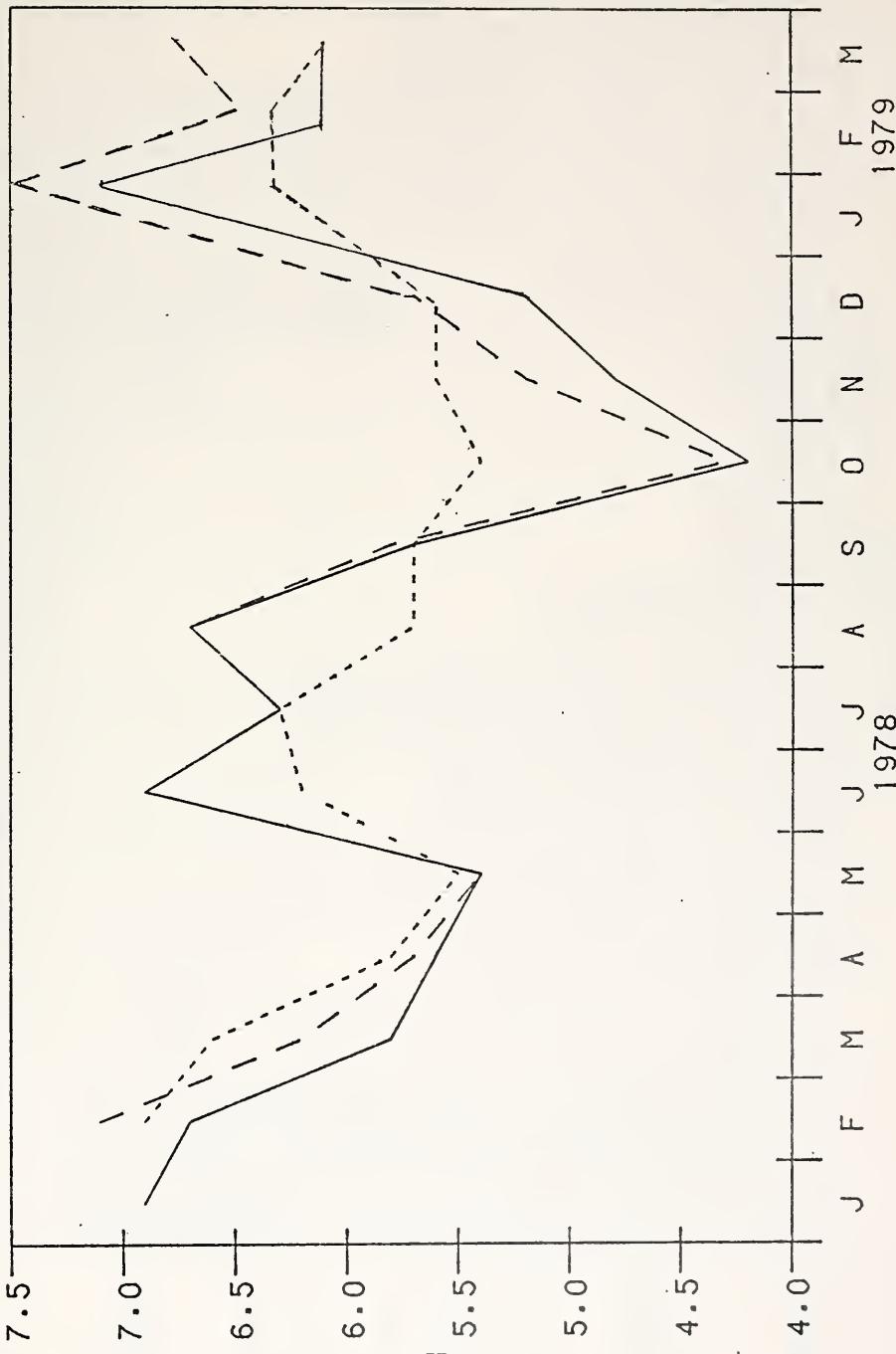


Table 21  
BOSTON SMSA  
INITIAL CLAIMS REGULAR PROGRAM

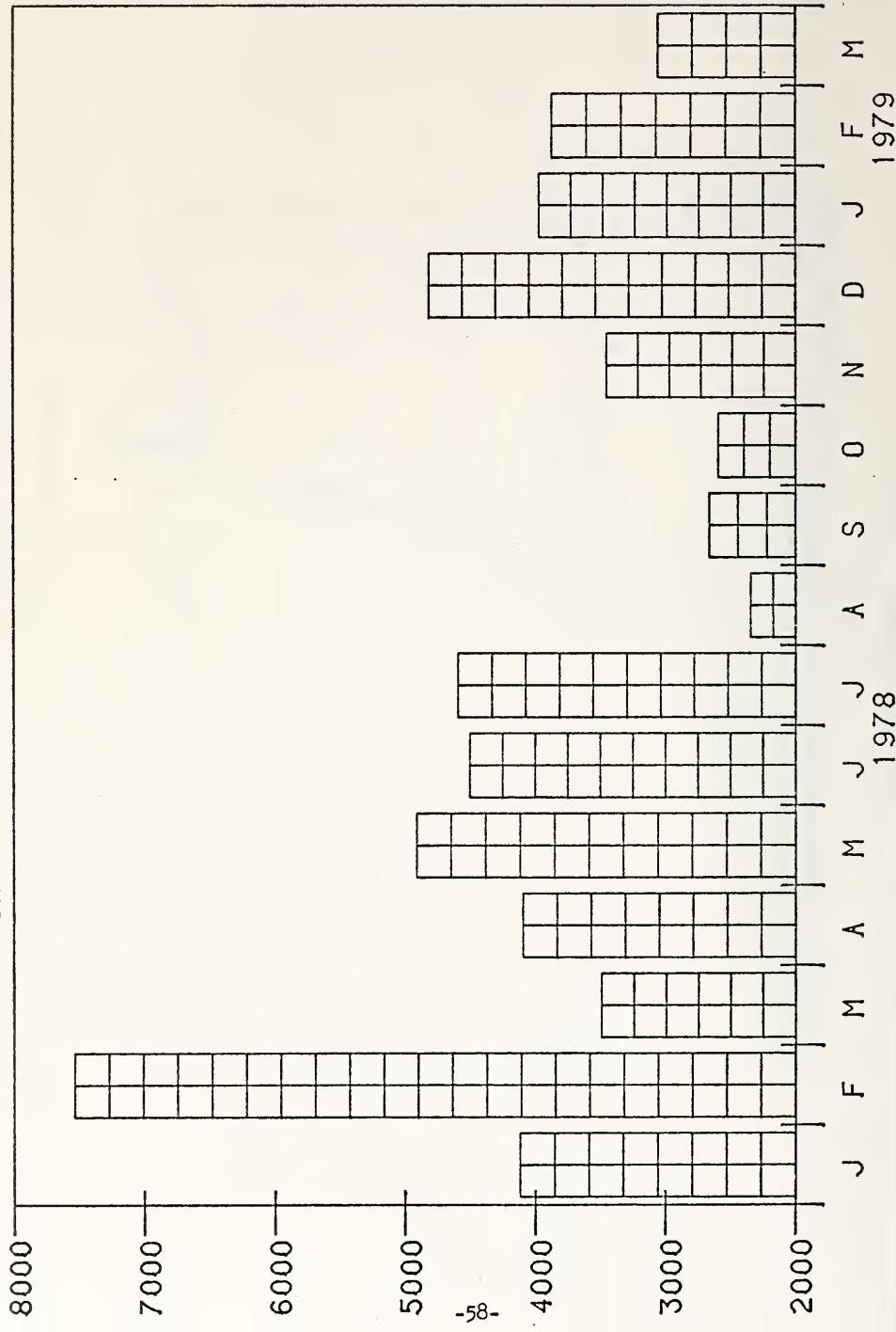


Table 22

**CONTINUED WEEKS CLAIMED      REGULAR PROGRAM**  
**BOSTON SMSA**

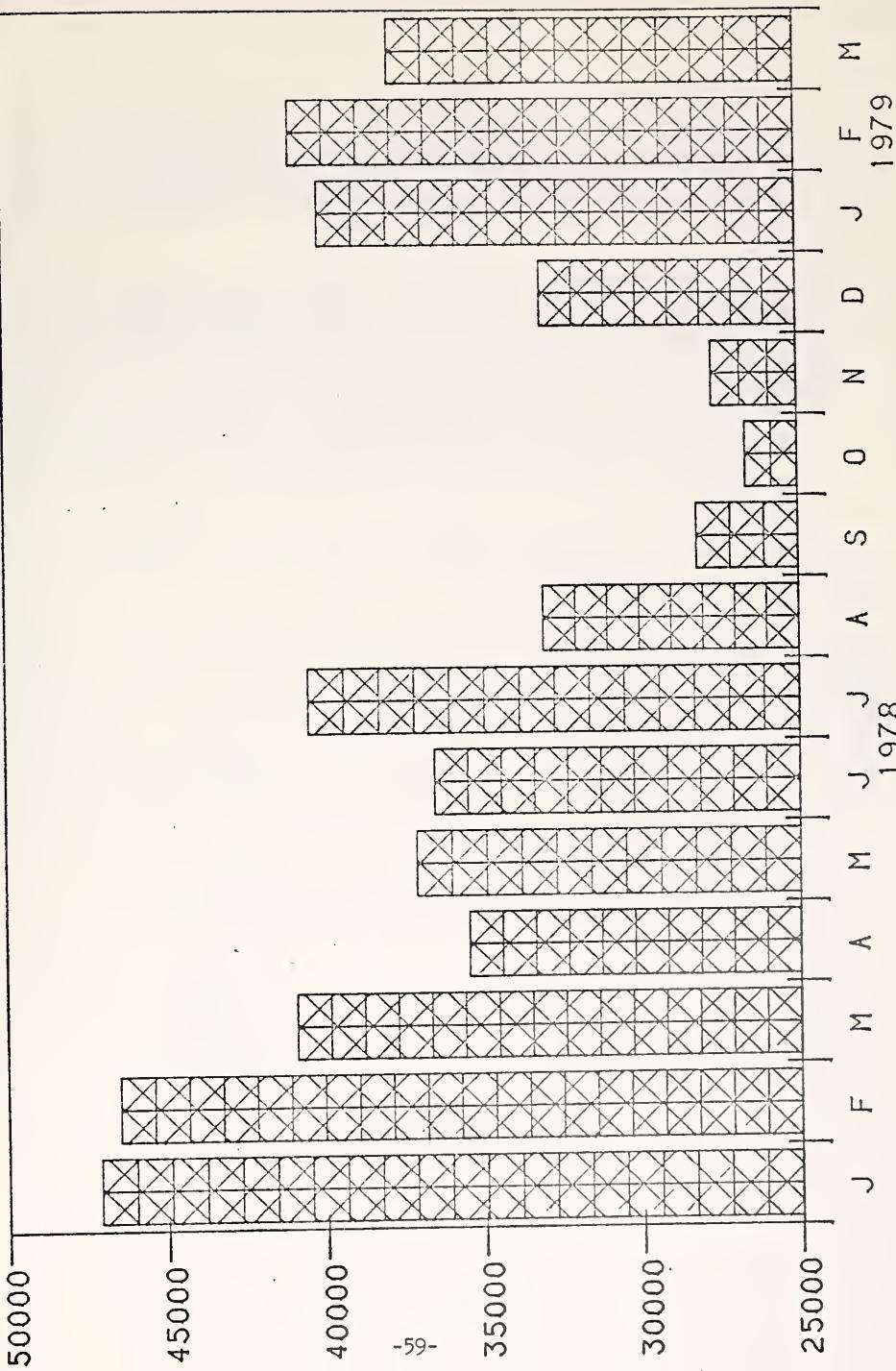


Table 23  
Boston SMA Benefit Payments  
By Industry and By Month  
1978

	Jan.	Feb.	March	April	May	June	July	Aug.	Sent.	Oct.	Nov.	Dec.
<b>TOTAL ALL INDUSTRIES</b>	27,587	20,650	26,014	22,106	18,692	17,114	18,356	17,567	14,308	13,478	12,731	17,030
Percent of Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>Manufacturing</b>	21.5	21.5	20.8	22.7	23.5	22.3	23.3	21.9	23.2	21.9	26.5	25.0
<b>Durables</b>	7.9	8.9	8.8	9.7	10.2	9.7	9.6	9.7	10.1	10.4	10.4	9.0
Lumber & Wood	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3
Furniture & Fixtures	0.5	0.5	0.4	0.7	0.7	0.8	0.6	0.6	0.7	0.6	0.6	0.7
Stone, Clay & Glass	0.8	0.9	0.9	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.4
Primary Metals	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Fabricated Metals	1.5	1.8	1.8	2.0	2.0	2.1	1.9	1.7	1.8	1.6	1.8	1.3
Machinery	1.1	1.2	1.3	1.4	1.4	1.5	1.7	1.4	1.3	1.4	1.7	1.3
Electrical Machinery	2.2	2.4	2.1	2.5	2.8	2.7	2.7	3.1	3.3	3.5	2.8	2.7
Transportation Equip.	0.4	0.6	0.7	0.6	0.7	0.5	0.4	0.5	0.6	0.6	1.1	0.7
Instruments	1.5	1.1	1.1	1.2	1.4	1.3	1.4	1.5	1.4	1.7	1.3	1.4
Roundable Goods	13.7	12.6	12.0	13.0	13.4	12.5	13.7	12.2	13.1	14.5	16.0	16.0
Food	1.5	1.6	1.5	2.0	2.3	2.3	2.4	2.6	2.9	3.2	2.7	2.3
Textiles	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.6	0.7
Apparel	4.8	4.3	3.0	3.7	4.0	3.4	4.2	3.6	3.6	4.5	5.8	6.3
Paper	0.7	0.7	1.0	0.8	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9
Printing	1.8	2.0	2.1	2.1	2.4	2.2	1.8	1.7	1.7	1.6	1.7	1.5
Chemicals	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Petroleum	0.2	0.2	0.3	0.2	0.1	0.2	0.0	0.3	0.1	0.1	0.2	0.2
Rubber	1.1	1.1	1.3	1.5	1.3	1.2	1.1	0.9	1.0	0.9	1.0	0.8
Leather	1.8	1.0	1.1	1.1	1.1	1.0	1.9	1.1	1.5	1.6	1.9	1.9
Miscellaneous	0.9	0.8	1.0	0.9	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.9
<b>Nonmanufacturing</b>	78.5	78.5	79.2	77.3	76.4	77.7	76.7	78.1	76.8	75.1	73.5	75.0
<b>Miscellaneous</b>	2.5	2.6	2.6	1.4	0.7	0.3	0.3	0.3	0.3	0.4	1.0	2.5
Construction	22.5	26.2	26.9	21.5	15.5	12.2	9.7	8.7	9.3	10.5	11.9	19.6
Trans., Comm., Util.	4.2	4.6	4.2	4.6	5.0	5.1	8.1	8.8	5.2	5.3	5.0	5.0
Wholesale & Retail Trade	21.2	20.6	21.0	21.1	27.0	29.7	29.2	30.6	30.8	29.6	23.6	23.6
Fin., Ins., Real Estate	4.0	3.8	4.1	4.7	5.4	5.6	5.3	5.4	5.6	4.9	4.5	4.5
Services	16.0	14.6	15.1	16.5	18.6	18.6	19.6	21.2	20.0	19.0	17.7	17.7
Unclassified	7.8	6.0	5.7	5.8	6.1	6.0	5.2	5.7	3.3	3.1	2.5	2.5
State Government	0.2	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.3

Tables 24 through 33 contain information on selected characteristics of the insured unemployed for the Boston SMSA and the CETA areas located within the SMSA. This data was obtained from a sample survey of the active file of claimants filing for a particular week of unemployment compensation benefits under State and Federal laws and programs.

Table 24 compares the characteristics of the insured unemployed for the Boston SMSA during August-September 1978 with those for December 1978. Industry attachment data reveals the nonmanufacturing industries with the largest percentage of the benefit payments. However, this is not disproportionate with their 79 percent share of the total employment in the SMSA. Occupationally, professional, technical and management work and clerical and sales work, both of which are represented in all industries share the lead in benefits payments.

Table 24  
SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
BOSTON LABOR AREA

	DECEMBER 1978		AUGUST-SEPT. 1978	
	ALL PROGRAMS		ALL PROGRAMS	
	NUMBER	PERCENT	NUMBER	PERCENT
<b>TOTAL</b>	<b>28046</b>	<b>100.0</b>	<b>41164</b>	<b>100.0</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	5120	18.3	6787	16.5
25 - 34	8240	29.4	11459	27.8
35 - 44	4464	15.9	7311	17.8
45 - 54	4070	14.5	6313	15.3
55 - 64	3513	12.5	5234	12.7
65 & OVER	2530	9.0	3884	9.4
I.N.A.	108	.4	176	.4
<b>SEX</b>				
MEN	16669	59.4	22773	55.3
WOMEN	11377	40.6	18383	44.7
I.N.A.	-	-	6	-
<b>ETHNIC GROUP</b>				
WHITE	25502	90.9	36615	88.9
NON-WHITE	2255	8.0	3960	9.6
I.N.A.	288	1.0	589	1.4
<b>SPANISH SURNAME</b>	<b>337</b>	<b>1.2</b>	<b>759</b>	<b>1.8</b>
<b>OCCUPATION</b>				
PROF., TECH., MGT	6878	24.5	9516	23.1
CLERICAL/SALES	6898	24.6	9042	22.0
SERVICES	3220	11.5	5315	12.9
FARM, FISH, FOR.	273	1.0	270	.7
PROCESSING	378	1.3	651	1.6
MACHINE TRADES	1512	5.4	2198	5.3
BENCH WORK	1740	6.2	2446	5.9
STRUCTURAL	3415	12.2	4714	11.5
MISC. WORK	3715	13.2	6963	16.9
I.N.A.	18	.1	48	.1
<b>RECENT DURATION</b>				
0-9 WEEKS	13455	48.0	21159	51.4
10-19 WEEKS	9668	34.5	10673	25.9
20-29 WEEKS	4681	16.7	6423	15.6
30 + WEEKS	242	.9	2705	6.6

Table 24 (continued)

## ALL PROGRAMS

NUMBER PERCENT NUMBER PERCENT

INDUSTRY ATTACH.

MANUFACTURING	5179	18.5	7909	19.2
CON. CONSTRUCT	1897	6.8	2870	7.0
TRAN./UTIL.	1004	3.6	3089	7.5
WHOL/RET. TRADE	5510	19.6	9343	22.7
FIN/INS/R.E.	1132	4.0	1715	4.2
SERVICES	5521	19.7	8239	20.0
GOVERNMENTS	6598	23.5	7279	17.7
OTHERS	92	.3	146	.4
I.N.A.	1112	4.0	575	1.4

AVG. WEEKLY WAGE

UNDER \$100	3582	12.8	8043	19.5
\$100 - \$149	5457	19.5	8944	21.7
\$150 - \$199	7807	27.8	8604	20.9
\$200 - \$249	4287	15.3	5520	13.4
\$250 - \$299	2340	8.3	3199	7.8
\$300 OR MORE	4240	15.1	5522	13.4
1.N.A.	333	1.2	1331	3.2

#### SEPARATION REASON

TERMINATION REASON	22720	81.0	34963	84.9
QUIT VOL. RET.	111	.4	211	.5
QUIT PREGNANCY	53	.2	32	.1
QUIT OTHER	953	3.4	1128	2.7
DISCHARGES	2484	8.9	4320	10.5
LABOR DISPUTE	66	.2	92	.2
OTHER/INA	1660	5.9	418	1.0

Table 25

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
BOSTON CETA

DECEMBER 1978

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			PROGRAMS	
	NUMBER	NUMBER	NUMBER	NUMBER
<b>TOTAL</b>	<b>6387</b>	<b>100.0</b>	<b>6164</b>	<b>223</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	1125	17.6	1089	37
25 - 34	2153	33.7	2037	117
35 - 44	1102	17.3	1064	37
45 - 54	800	12.5	778	22
55 - 64	669	10.5	658	10
65 & OVER	521	8.2	521	-
I.N.A.	16	.3	16	-
<b>SEX</b>				
MEN	3838	60.1	3682	157
WOMEN	2549	39.9	2482	66
I.N.A.	-	-	-	-
<b>ETHNIC GROUP</b>				
WHITE	4593	71.9	4440	153
NON-WHITE	1778	27.8	1711	67
I.N.A.	16	.3	13	3
<b>SPANISH SURNAME</b>	<b>264</b>	<b>4.1</b>	<b>252</b>	<b>12</b>
<b>OCCUPATION</b>				
PROF., TECH., MGT	1388	21.7	1338	50
CLERICAL/SALES	1348	21.1	1305	43
SERVICES	1034	16.2	993	41
FARM, FISH, FOR.	32	.5	15	17
PROCESSING	91	1.4	91	-
MACHINE TRADES	383	6.0	372	11
BENCH WORK	500	7.8	500	-
STRUCTURAL	709	11.1	670	39
MISC. WORK	898	14.1	876	22
I.N.A.	3	-	3	-
<b>RECENT DURATION</b>				
0-9 WEEKS	2890	45.2	2775	115
10-19 WEEKS	2316	36.3	2223	93
20-29 WEEKS	1101	17.2	1085	16
30 + WEEKS	80	1.3	80	-

CONTINUED -1

Table 25 (continued)

	ALL PROGRAMS	PERCENT	REGULAR	
			PROGRAMS	PSE
	NUMBER	NUMBER	NUMBER	NUMBER
<b>INDUSTRY ATTACH.</b>				
MANUFACTURING	1290	20.2	1290	-
CON. CONSTRUCT	418	6.5	418	-
TRAN./UTIL.	308	4.8	308	-
WHOL/RET. TRADE	1219	19.1	1219	-
FIN/INS/R.E.	316	4.9	316	-
SERVICES	1462	22.9	1457	6
GOVERNMENTS	1029	16.1	817	212
OTHERS	9	.1	6	3
I.N.A.	337	5.3	334	3
<b>AVE. WEEKLY WAGE</b>				
UNDER \$100	993	15.5	985	9
\$100 - \$149	1421	22.2	1374	47
\$150 - \$199	1599	25.0	1459	141
\$200 - \$249	1018	15.9	1003	15
\$250 - \$299	547	8.6	539	8
\$300 OR MORE	787	12.3	783	4
I.N.A.	22	.3	22	-
<b>SEPARATION REASON</b>				
LAYOFF	5062	79.3	4855	207
QUIT VOL. RET.	12	.2	9	3
QUIT PREGNANCY	2	-	2	-
QUIT OTHER	211	3.3	204	7
DISCHARGES	713	11.2	707	6
LABOR DISPUTE	14	.2	14	-
OTHER/INA	372	5.8	372	-

Table 26

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
CAMBRIDGE CETA

DECEMBER 1978

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			PROGRAMS	
	NUMBER	NUMBER	NUMBER	NUMBER
<b>TOTAL</b>	<b>3379</b>	<b>100.0</b>	<b>3124</b>	<b>254</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	603	17.8	537	66
25 - 34	1180	34.9	1070	110
35 - 44	468	13.9	434	34
45 - 54	422	12.5	392	30
55 - 64	359	10.6	348	11
65 & OVER	332	9.8	329	3
I.N.A.	14	.4	14	-
<b>SEX</b>				
MEN	1894	56.1	1716	178
WOMEN	1484	43.9	1408	76
I.N.A.	-	-	-	-
<b>ETHNIC GROUP</b>				
WHITE	3181	94.1	2935	246
NON-WHITE	182	5.4	174	8
I.N.A.	15	.4	15	-
<b>SPANISH SURNAME</b>	<b>34</b>	<b>1.0</b>	<b>30</b>	<b>4</b>
<b>OCCUPATION</b>				
PROF., TECH., MGT	1000	29.6	945	55
CLERICAL/SALES	778	23.0	747	31
SERVICES	344	10.2	306	39
FARM, FISH, FOR.	25	.7	17	8
PROCESSING	41	1.2	41	-
MACHINE TRADES	156	4.6	145	12
BENCH WORK	252	7.5	252	-
STRUCTURAL	341	10.1	285	57
MISC. WORK	432	12.8	383	50
I.N.A.	8	.2	4	4
<b>RECENT DURATION</b>				
0-9 WEEKS	1456	43.1	1322	133
10-19 WEEKS	1272	37.6	1173	98
20-29 WEEKS	582	17.2	559	22
30 + WEEKS	69	2.0	69	-

CONTINUED -1

Table 26 (continued)

	ALL PROGRAMS	REGULAR PROGRAMS	PSE
	NUMBER	PERCENT	NUMBER

## INDUSTRY ATTACH.

MANUFACTURING	599	17.7	599	-
CON. CONSTRUCT	145	4.3	145	-
TRAN./UTIL.	133	3.9	133	-
WHOL/RET. TRADE	594	17.6	594	-
FIN/INS/R.E.	121	3.6	121	-
SERVICES	773	22.9	773	-
GOVERNMENTS	757	22.4	502	254
OTHERS	12	.4	12	-
I.N.A.	245	7.3	245	-

## AVE. WEEKLY WAGE

UNDER \$100	421	12.5	414	7
\$100 - \$149	636	18.8	611	25
\$150 - \$199	1011	29.9	817	194
\$200 - \$249	512	15.2	486	26
\$250 - \$299	301	8.9	299	3
\$300 OR MORE	486	14.4	486	-
I.N.A.	12	.4	12	-

## SEPARATION REASON

LAYOFF	2654	78.5	2407	248
QUIT VOL. RET.	10	.3	10	-
QUIT PREGNANCY	9	.3	9	-
QUIT OTHER	137	4.1	137	-
DISCHARGES	320	9.5	314	7
LABOR DISPUTE	-	-	-	-
OTHER/INA	248	7.3	248	-

Table 27

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
CHELSEA CETA

DECEMBER 1978

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			PROGRAMS	
	NUMBER	NUMBER	NUMBER	NUMBER
<b>TOTAL</b>	<b>1152</b>	<b>100.0</b>	<b>936</b>	<b>216</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	211	18.3	177	33
25 - 34	343	29.8	251	92
35 - 44	121	10.5	106	15
45 - 54	165	14.3	134	31
55 - 64	185	16.1	148	37
65 & OVER	127	11.0	119	8
I.N.A.	-	-	-	-
<b>SEX</b>				
MEN	708	61.5	536	173
WOMEN	444	38.5	400	44
I.N.A.	-	-	-	-
<b>ETHNIC GROUP</b>				
WHITE	1127	97.8	920	207
NON-WHITE	25	2.2	16	9
I.N.A.	-	-	-	-
<b>SPANISH SURNAME</b>	<b>10</b>	<b>.9</b>	<b>8</b>	<b>3</b>
<b>OCCUPATION</b>				
PROF., TECH., MGT	183	15.9	145	38
CLERICAL/SALES	297	25.8	248	49
SERVICES	153	13.3	129	24
FARM, FISH, FOR.	13	1.1	5	8
PROCESSING	21	1.8	21	-
MACHINE TRADES	64	5.6	62	3
BENCH WORK	82	7.1	67	14
STRUCTURAL	140	12.2	105	35
MISC. WORK	199	17.3	153	46
I.N.A.	-	-	-	-
<b>RECENT DURATION</b>				
0-9 WEEKS	572	49.7	488	84
10-19 WEEKS	425	36.9	336	90
20-29 WEEKS	151	13.1	112	39
30 + WEEKS	4	.3	-	4

Table 27 (continued)

CONTINUED -1

	ALL PROGRAMS	PERCENT	REGULAR	
			PRO- GRAMS	PSE
	NUMBER	NUMBER	NUMBER	NUMBER
<b>INDUSTRY ATTACH.</b>				
MANUFACTURING	204	17.7	204	-
CON. CONSTRUCT	67	5.8	67	-
TRAN./UTIL.	62	5.4	62	-
WHOL/RET. TRADE	236	20.5	236	-
FIN/INS/R.E.	43	3.7	43	-
SERVICES	251	21.8	251	-
GOVERNMENTS	279	24.2	62	216
OTHERS	3	.3	.3	-
I.N.A.	8	.7	8	-
<b>AVE. WEEKLY WAGE</b>				
UNDER \$100	177	15.4	158	19
\$100 - \$149	259	22.5	220	40
\$150 - \$199	319	27.7	180	139
\$200 - \$249	140	12.2	126	15
\$250 - \$299	63	5.5	63	-
\$300 OR MORE	187	16.2	183	4
I.N.A.	5	.4	5	-
<b>SEPARATION REASON</b>				
LAYOFF	1008	87.5	796	211
QUIT VOL. RET.	3	.3	3	-
QUIT PREGNANCY	10	.9	10	-
QUIT OTHER	31	2.7	29	3
DISCHARGES	50	4.3	48	3
LABOR DISPUTE	-	-	-	-
OTHER/INA	50	4.3	50	-

Table 28

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
LYNN CETA

DECEMBER 1978

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSF
	NUMBER	PERCENT	NUMBER
<b>TOTAL</b>	<b>1040</b>	<b>100.0</b>	<b>851</b>
<b>AGE</b>			
UNDER 20	-	-	-
UNDER 25	175	16.8	129
25 - 34	290	27.9	216
35 - 44	178	17.1	147
45 - 54	126	12.1	98
55 - 64	135	13.0	122
65 & OVER	132	12.7	132
I.N.A.	6	.6	6
<b>SEX</b>			
MEN	665	63.9	496
WOMEN	376	36.2	354
I.N.A.	-	-	-
<b>ETHNIC GROUP</b>			
WHITE	976	93.8	811
NON-WHITE	28	2.7	9
I.N.A.	37	3.6	31
<b>SPANISH SURNAME</b>	<b>3</b>	<b>.3</b>	<b>3</b>
<b>OCCUPATION</b>			
PROF., TECH., MGT	148	14.2	124
CLERICAL/SALES	233	22.4	208
SERVICES	141	13.6	116
FARM, FISH, FOR.	6	.6	6
PROCESSING	30	2.9	30
MACHINE TRADES	86	8.3	77
BENCH WORK	77	7.4	77
STRUCTURAL	120	11.5	83
MISC. WORK	199	19.1	129
I.N.A.	-	-	-
<b>RECENT DURATION</b>			
0-9 WEEKS	539	51.8	463
10-19 WEEKS	306	29.4	230
20-29 WEEKS	189	18.2	152
30 + WEEKS	6	.6	6

CONTINUED -1

Table 28 (continued)

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE	NUMLFR
	NUMBER	PERCENT	NUMBER	
<b>INDUSTRY ATTACH.</b>				
MANUFACTURING	205	19.7	205	-
CON. CONSTRUCT	49	4.7	49	-
TRAN./UTIL.	21	2.0	21	-
WHOL/RET. TRADE	171	16.4	171	-
FIN/INS/R.E.	21	2.0	21	-
SERVICES	193	18.6	193	-
GOVERNMENTS	325	31.3	135	184
OTHERS	9	.9	9	-
I.N.A.	45	4.3	45	-
<b>AVE. WEEKLY WAGE</b>				
UNDER \$100	171	16.4	168	3
\$100 - \$149	190	18.3	169	21
\$150 - \$199	306	29.4	186	113
\$200 - \$249	146	14.0	110	36
\$250 - \$299	58	5.6	58	-
\$300 OR MORE	104	10.0	104	-
I.N.A.	64	6.2	55	9
<b>SEPARATION REASON</b>				
LAYOFF	850	81.7	663	180
QUIT VOL. RET.	12	1.2	12	-
QUIT PREGNANCY	-	-	-	-
QUIT OTHER	1 <del>0</del> 2	1.7	18	-
DISCHARGES	52	5.0	49	3
LABOR DISPUTE	12	1.2	12	-
OTHER/INA	95	9.1	95	-

Table 29

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
MEDFORD CETA

DECEMBER 1978

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER
<b>TOTAL</b>	<b>3798</b>	<b>100.0</b>	<b>3168</b>
<b>AGE</b>			
UNDER 20	-	-	-
UNDER 25	762	20.1	627
25 - 34	956	25.2	789
35 - 44	581	15.3	491
45 - 54	604	15.9	475
55 - 64	540	14.2	444
65 & OVER	329	8.7	316
I.N.A.	26	.7	26
<b>SEX</b>			
MEN	2362	62.2	1884
WOMEN	1437	37.8	1283
I.N.A.	-	-	-
<b>ETHNIC GROUP</b>			
WHITE	3699	97.4	3091
NON-WHITE	64	1.7	41
I.N.A.	36	.9	36
SPANISH SURNAME	4	.1	-
<b>OCCUPATION</b>			
PROF., TECH., MGT	784	20.6	655
CLERICAL/SALES	956	25.2	855
SERVICES	380	10.0	309
FARM, FISH, FOR.	50	1.3	19
PROCESSING	34	.9	34
MACHINE TRADES	231	6.1	214
BENCH WORK	249	6.6	237
STRUCTURAL	526	13.8	392
MISC. WORK	589	15.5	453
I.N.A.	-	-	-
<b>RECENT DURATION</b>			
0-9 WEEKS	1888	49.7	1676
10-19 WEEKS	1330	35.0	1004
20-29 WEEKS	563	14.8	471
30 + WEEKS	16	.4	16

CONTINUED -1

Table 29 (continued)

	ALL PROGRAMS	PERCENT	REGULAR	
			PROGRAMS	PSF
	NUMBER	NUMBER	NUMBER	NUMBER
<b>INDUSTRY ATTACH.</b>				
MANUFACTURING	733	19.3	733	-
CON. CONSTRUCT	311	8.2	311	-
TRAN./UTIL.	101	2.7	101	-
WHOL/RET. TRADE	765	20.1	763	3
FIN/INS/R.E.	141	3.7	141	-
SERVICES	581	15.3	576	6
GOVERNMENTS	1080	28.4	457	622
OTHERS	16	.4	16	-
I.N.A.	70	1.8	70	-
<b>AVE. WEEKLY WAGE</b>				
UNDFR \$100	410	10.8	403	6
\$100 - \$149	673	17.7	609	64
\$150 - \$199	1112	29.3	730	382
\$200 - \$249	674	17.7	519	155
\$250 - \$299	308	8.1	297	11
\$300 OR MORE	586	15.4	580	6
I.N.A.	35	.9	28	6
<b>SEPARATION REASON</b>				
LAYOFF	3084	81.2	2475	609
QUIT VOL. RET.	26	.7	22	4
QUIT PREGNANCY	11	.3	11	-
QUIT OTHER	117	3.1	114	3
DISCHARGES	310	8.2	295	15
LABOR DISPUTE	27	.7	27	-
OTHER/INA	224	5.9	224	-

Table 30

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
NEWTON CETA

DECEMBER 1978

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			PROGRAMS	
	NUMBER	NUMBER	NUMBER	NUMBER
<b>TOTAL</b>	<b>2087</b>	<b>100.0</b>	<b>1808</b>	<b>279</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	319	15.3	236	82
25 - 34	637	30.5	531	106
35 - 44	324	15.5	295	30
45 - 54	312	14.9	283	29
55 - 64	209	10.0	176	32
65 & OVER	263	12.6	263	-
I.N.A.	23	1.1	23	-
<b>SEX</b>				
MEN	1109	53.1	918	191
WOMEN	977	46.8	890	88
I.N.A.	-	-	-	-
<b>ETHNIC GROUP</b>				
WHITE	2011	96.4	1737	274
NON-WHITE	76	3.6	71	5
I.N.A.	-	-	-	-
<b>SPANISH SURNAME</b>	<b>4</b>	<b>.2</b>	<b>4</b>	<b>-</b>
<b>OCCUPATION</b>				
PROF., TECH., MGT	789	37.8	685	104
CLERICAL/SALES	613	29.4	565	48
SERVICES	155	7.4	126	28
FARM, FISH, FOR.	50	2.4	11	39
PROCESSING	26	1.2	23	3
MACHINE TRADES	52	2.5	50	3
BENCH WORK	120	5.7	117	3
STRUCTURAL	160	7.7	130	30
MISC. WORK	122	5.8	99	22
I.N.A.	-	-	-	-
<b>RECENT DURATION</b>				
0-9 WEEKS	992	47.5	828	164
10-19 WEEKS	748	35.8	653	95
20-29 WEEKS	341	16.3	321	20
30 + WEEKS	6	.3	6	-

Table 30 (continued)

CONTINUED -1

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			NUMBER	
<b>INDUSTRY ATTACH.</b>				
MANUFACTURING	316	15.1	316	-
CON. CONSTRUCT	142	6.8	142	-
TRAN./UTIL.	65	3.1	65	-
WHOL/RET. TRADE	411	19.7	411	-
FIN/INS/R.E.	95	4.6	95	-
SERVICES	498	23.9	473	25
GOVERNMENTS	451	21.6	197	254
OTHERS	11	.5	11	-
I.N.A.	97	4.6	97	-
<b>AVE. WEEKLY WAGE</b>				
UNDER \$100	238	11.4	235	3
\$100 - \$149	398	19.1	340	58
\$150 - \$199	508	24.3	334	174
\$200 - \$249	346	16.6	305	41
\$250 - \$299	177	8.5	174	3
\$300 OR MORE	412	19.7	412	-
I.N.A.	8	.4	8	-
<b>SEPARATION REASON</b>				
LAYOFF	1613	77.3	1343	271
QUIT VOL. RET.	8	.4	8	-
QUIT PREGNANCY	6	.3	6	-
QUIT OTHER	98	4.7	92	6
DISCHARGES	222	10.6	219	3
LABOR DISPUTE	-	-	-	-
OTHER/INA	140	6.7	140	-

Table 31

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
NORWOOD CETA  
DECEMBER 1978

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER
<b>TOTAL</b>	<b>1541</b>	<b>100.0</b>	<b>1309</b>
<b>AGE</b>			
UNDER 20	-	-	-
UNDER 25	300	19.5	258
25 - 34	359	23.3	289
35 - 44	269	17.5	225
45 - 54	281	18.2	237
55 - 64	224	14.5	203
65 & OVER	104	6.7	97
I.N.A.	2	.1	-
<b>SEX</b>			
MEN	893	57.9	778
WOMEN	647	42.0	530
I.N.A.	-	-	-
<b>ETHNIC GROUP</b>			
WHITE	1533	99.5	1301
NON-WHITE	5	.3	5
I.N.A.	3	.2	3
<b>SPANISH SURNAME</b>			
-	-	-	-
<b>OCCUPATION</b>			
PROF., TECH., MGT	416	27.0	324
CLERICAL/SALES	395	25.6	336
SERVICES	170	11.0	155
FARM, FISH, FOR.	17	1.1	9
PROCESSING	8	.5	8
MACHINE TRADES	76	4.9	74
BENCH WORK	60	3.9	52
STRUCTURAL	206	13.4	173
MISC. WORK	194	12.6	177
I.N.A.	-	-	-
<b>RECENT DURATION</b>			
0-9 WEEKS	831	53.9	697
10-19 WEEKS	478	31.0	392
20-29 WEEKS	217	14.1	207
30 + WEEKS	15	1.0	12

Table 31 (continued)

ALL PROGRAMS	PERCENT	REGULAR	
		PROGRAMS	PSE
NUMBER	NUMBER	NUMBER	NUMBER

## INDUSTRY ATTACH.

MANUFACTURING	310	20.1	308	2
CON. CONSTRUCT	125	8.1	125	-
TRAN./UTIL.	44	2.9	44	-
WHOL/RET. TRADE	368	23.9	366	2
FIN/INS/R.E.	57	3.7	57	-
SERVICES	217	14.1	197	19
GOVERNMENTS	351	22.8	148	203
OTHERS	5	.3	5	-
I.N.A.	63	4.1	59	5

## AVE. WEEKLY WAGE

UNDER \$100	176	11.4	164	12
\$100 - \$149	213	13.8	183	30
\$150 - \$199	418	27.1	276	142
\$200 - \$249	235	15.2	201	34
\$250 - \$299	142	9.2	135	7
\$300 OR MORE	303	19.7	298	5
I.N.A.	54	3.5	51	2

## SEPARATION REASON

LAYOFF	1268	83.6	1067	220
QUIT VOL. RET.	-	-	-	-
QUIT PREGNANCY	-	-	-	-
QUIT OTHER	43	2.8	41	2
DISCHARGES	127	8.2	118	9
LABOR DISPUTE	2	.1	2	-
OTHER/INC.	80	5.2	80	-

Table 32

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
QUINCY CETA

DECEMBER 1978

	ALL PROGRAMS	PERCENT	REGULAR	PSE
			PROGRAMS	
	NUMBER	NUMBER	NUMBER	NUMBER
<b>TOTAL</b>	<b>3036</b>	<b>100.0</b>	<b>2604</b>	<b>432</b>
<b>AGE</b>				
UNDER 20	-	-	-	-
UNDER 25	565	18.6	460	105
25 - 34	789	26.0	662	127
35 - 44	536	17.7	461	75
45 - 54	389	12.8	342	48
55 - 64	432	14.2	363	69
65 & OVER	312	10.3	303	9
I.N.A.	12	.4	12	-
<b>SEX</b>				
MEN	1859	61.2	1531	328
WOMEN	1177	38.8	1073	104
I.N.A.	-	-	-	-
<b>ETHNIC GROUP</b>				
WHITE	2989	98.5	2562	427
NON-WHITE	21	.7	19	2
I.N.A.	26	.9	23	3
SPANISH SURNAME	5	.2	2	2
<b>OCCUPATION</b>				
PROF., TECH., MGT	760	25.0	646	114
CLERICAL/SALES	875	28.8	786	89
SERVICES	255	8.4	210	46
FARM, FISH, FOR.	30	1.0	16	14
PROCESSING	32	1.1	27	5
MACHINE TRADES	128	4.2	118	9
BENCH WORK	148	4.9	137	11
STRUCTURAL	510	16.8	400	110
MISC. WORK	293	9.7	259	35
I.N.A.	5	.2	5	-
<b>RECENT DURATION</b>				
0-9 WEEKS	1325	43.6	1211	114
10-19 WEEKS	1103	36.3	888	215
20-29 WEEKS	592	19.5	495	97
30' + WEEKS	16	.5	9	7

CONTINUED -1

Table 32 (continued)

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER
<b>INDUSTRY ATTACH.</b>			
MANUFACTURING	533	17.6	531
CON. CONSTRUCT	250	8.2	247
TRAN./UTIL.	106	3.5	106
WHOL/RET. TRADE	673	22.2	671
FIN/INS/R.E.	153	5.0	153
SERVICES	505	16.6	500
GOVERNMENTS	747	24.6	326
OTHERS	5	.2	5
I.N.A.	64	2.1	64
<b>AVE. WEEKLY WAGE</b>			
UNDER \$100	342	11.3	333
\$100 - \$149	577	19.0	491
\$150 - \$199	832	27.4	557
\$200 - \$249	417	13.7	364
\$250 - \$299	307	10.1	300
\$300 OR MORE	551	18.1	549
I.N.A.	10	.3	10
<b>SEPARATION REASON</b>			
LAYOFF	2384	78.5	1961
QUIT VOL. RET.	9	.3	9
QUIT PREGNANCY	5	.2	5
QUIT OTHER	155	5.1	153
DISCHARGES	260	8.6	254
LABOR DISPUTE	-	-	-
OTHER/INA	222	7.3	222

Table 33  
SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED  
SALEM CETA  
DECEMBER 1978

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE
	NUMBER	PERCENT	NUMBER
<b>TOTAL</b>	<b>3390</b>	<b>100.0</b>	<b>2604</b>
<b>AGE</b>			
UNDER 20	-	-	-
UNDER 25	656	19.4	486
25 - 34	916	27.0	662
35 - 44	459	13.5	351
45 - 54	568	16.8	422
55 - 64	487	14.4	398
65 & OVER	296	8.7	278
I.N.A.	8	.2	8
<b>SEX</b>			
MEN	2124	62.7	1559
WOMEN	1267	37.4	1045
I.N.A.	-	-	-
<b>ETHNIC GROUP</b>			
WHITE	3270	96.5	2536
NON-WHITE	25	.7	14
I.N.A.	96	2.8	55
<b>SPANISH SURNAME</b>	<b>11</b>	<b>.3</b>	<b>5</b>
<b>OCCUPATION</b>			
PROF., TECH., MGT	735	21.7	574
CLERICAL/SALES	688	20.3	562
SERVICES	394	11.6	328
FARM, FISH, FOR.	206	6.1	193
PROCESSING	103	3.0	99
MACHINE TRADES	167	4.9	154
BENCH WORK	125	3.7	117
STRUCTURAL	376	11.1	236
MISC. WORK	594	17.5	340
I.N.A.	3	.1	3
<b>PERCENT DURATION</b>			
0-9 WEEKS	1931	57.0	1556
10-19 WEEKS	926	27.3	695
20-29 WEEKS	518	15.3	338
30 + WEEKS	16	.5	16

CONTINUED -1

Table 33 (continued)

	ALL PROGRAMS	REGULAR PRO- GRAMS	PSE
	NUMBFR	PERCENT	NUMBER
<b>INDUSTRY ATTACH.</b>			
MANUFACTURING	512	15.1	512
CON. CONSTRUCT	165	4.9	165
TRAN./UTIL.	123	3.6	123
WHOL/RET. TRADE	538	15.9	535
FIN/INS/R.E.	78	2.3	78
SERVICES	575	17.0	570
GOVERNMENTS	1110	32.7	332
OTHERS	196	5.8	196
I.N.A.	93	2.7	93
<b>AVE. WEEKLY WAGE</b>			
UNDER \$100	423	12.5	381
\$100 - \$149	620	18.3	495
\$150 - \$199	1063	31.4	574
\$200 - \$249	479	14.1	391
\$250 - \$299	218	6.4	205
\$300 OR MORE	516	15.2	498
I.N.A.	71	2.1	61
<b>SEPARATION REASON</b>			
LAYOFF	3046	89.9	2287
QUIT VOL. RET.	33	1.0	33
QUIT PREGNANCY	-	-	-
QUIT OTHER	39	1.2	33
DISCHARGES	138	4.1	129
LABOR DISPUTE	-	-	-
OTHER/INA	135	4.0	122

## VI. Estimate of Need for Manpower Services

### A. Fiscal Year 1980 Projections

It is projected that 198,168 individuals over 18 years of age in the SMSA will be economically disadvantaged during fiscal year 1980. An economically disadvantaged person is one who is a member of a family (1) which received cash welfare payments or (2) whose annual income in relation to family size and location represents 70 percent of the lower living income level issued by the Department of Labor, Bureau of Labor Statistics, or poverty levels established by the federal Office of Management and Budget.

Of the 198,168 disadvantaged individuals in the SMSA 73,002 or 37 percent will reside in the City of Boston prime sponsor CETA area, and 23,652 or 12 percent will reside in the EMHRDA prime sponsor CETA area. Within the SMSA 20 percent of the disadvantaged will be minority group members, for the EMHRDA area 11 percent will be minorities and for the City of Boston 40 percent of the disadvantaged will be members of a minority group.

Table 34  
Poverty Level Guidelines #  
1979

Family Size	Nonfarm Family*	Farm Family***
1	\$3,400	\$2,910
2	4,500	3,840
3	5,600	4,770
4	6,700	6,700
5	7,800	6,630
6	8,900	7,560

# For all states except Alaska and Hawaii  
\* Add \$1100 for each additional family member  
\*\* Add \$930 for each additional family member

Source: Office of Management and Budget

In addition to the economically disadvantaged there are other groups that may be in need of manpower services. Among these are those employed part-time for economic reasons, the unemployed, and the long-term unemployed. An individual who is employed part-time for economic reasons is one who is working less than a full week and who would prefer full-time work if it were available. For fiscal year 1980 it is projected that there will be 50,477 such individuals in the Boston SMSA. Often, before these individuals are able to accept full-time work, they are in need of training, because the job skills required for such full-time work do not match those skills they utilized on their part-time jobs.

The long-term unemployed are individuals who have been unemployed for 15 weeks or longer. It is estimated that there will be 18,689 long-term unemployed in the Boston SMSA, 75 percent of whom will be male both white and nonwhite. For many of these individuals the reason for the extended duration of their unemployment can be traced to their particular job skills. Often they possess low level skills or have worked in occupations that are no longer in demand and will need either skill upgradings or retraining before they can become reemployed.

In all of the areas for which projections are available, the age group 16-19 is particularly hard hit by unemployment. In almost all of the subgroups, white, nonwhite, male and female, youth are projected to experience unemployment rates well above those for the subgroup as a whole. Thus youth unemployment can be viewed as a serious problem, and one which needs the attention of the various manpower programs.

Table 35  
POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS  
FISCAL YEAR 1980  
BOSTON SMSA

	Population	Labor Force	Employ	Unemploy	Unemploy Rate	Lebor Force Participation Rate
<b>TOTAL</b>	2819159	1350316	1269297	81019	6.0	64.6
White Male	1212659	693453	654354	39099	5.6	78.6
0-15	330920	--	--	--	--	--
16-17)	102876	69849	62167	7682	11.0	67.9
18-19)	124530	98959	90952	8007	8.1	79.5
20-24	150638	142766	134820	7946	5.6	94.8
25-34	130447	126423	121598	4825	3.8	96.9
35-44	259149	226129	218487	7642	3.4	87.3
45-64	114099	29329	26332	2997	10.2	25.7
White Female	1373770	563154	531719	31435	5.6	53.3
0-15	316736	--	--	--	--	--
16-17)	101688	77126	71147	5979	7.8	75.8
18-19)	130774	102752	97912	4840	4.7	78.6
20-24	190512	112875	107526	5349	4.7	59.2
25-34	146131	82748	78974	3774	4.6	56.6
35-44	291984	166213	156788	9425	5.7	56.9
45-64	195945	21440	19372	2068	9.6	10.9
Nonwhite Male	105330	47839	41806	6033	12.6	74.1
0-15	40776	--	--	--	--	--
16-17)	9272	4683	3291	1392	29.7	48.0
18-19)	10924	7780	6674	1106	14.2	71.2
20-24	17375	15387	13617	1770	11.5	88.6
25-34	9766	8922	8082	840	9.4	91.4
35-44	12616	10252	9459	793	7.7	81.2
45-64	4111	815	683	132	16.2	19.8
Nonwhite Female	127400	45870	41418	4452	9.7	52.8
0-15	40452	--	--	--	--	--
16-17)	9752	4996	4334	662	13.3	51.2
18-19)	12922	7156	6278	878	12.3	55.4
20-24	25258	14033	12817	1216	8.7	55.6
25-34	14711	8416	7731	685	8.1	57.2
35-44	17170	10410	9497	913	8.8	60.6
45-64	7135	859	761	98	11.4	12.0

Table 36  
 Additional Planning Data Projections  
 Fiscal Year 1980  
 Boston SMSA

	Employed Part-time For Economic Reasons
TOTAL	50,477
White Male	18,976
White Female	26,054
Nonwhite Male	2,216
Nonwhite Female	3,231

	Economically Disadvantaged 18 Years and Over
TOTAL	198,168
White	165,272
Black	28,140
Other	4,756
Spanish	7,303

**Table 37**  
**ADDITIONAL UNEMPLOYMENT PROJECTIONS**

**FISCAL YEAR 1980**

**BOSTON SMSA**

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
<b>TOTAL</b>	<b>81,019</b>	<b>6.0</b>	<b>18,689</b>	<b>272,298</b>
White Male	39,099	5.6	11,746	133,506
White Female	31,435	5.6	4,230	107,337
Nonwhite Male	6,033	12.6	2,187	18,099
Nonwhite Female	4,452	9.7	526	13,356

Table 38

## POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS

FISCAL YEAR 1980

Boston CETA

	Population	Labor Force	Employ	Unemploy	Unemploy Rate	Labor Force Participation Rate
<b>TOTAL</b>	600,026	281,038	260,241	20,797	7.4	64.0
White Male	191,148	103,938	96,705	7,233	7.0	73.4
0-15	49,540	--	--	--	--	--
16-17 )						
18-19 )	17,547	11,718	10,489	1,229	10.5	66.8
20-24	28,424	21,318	19,372	1,946	9.1	75.0
25-34	24,437	22,851	21,209	1,642	7.2	73.5
35-44	15,742	14,895	14,094	801	5.4	94.6
45-64	34,127	28,192	27,027	1,165	4.1	82.6
65 +	21,331	4,964	4,514	450	9.1	23.3
White Female	230,440	106,164	100,729	5,435	5.1	60.0
0-15	47,356	--	--	--	--	--
16-17 )						
18-19 )	17,648	13,805	12,670	1,135	8.2	78.2
20-24	29,998	24,636	23,734	902	3.7	82.1
25-34	37,193	27,014	25,855	1,159	4.3	72.6
35-44	17,651	11,124	10,647	477	4.3	63.0
45-64	41,125	24,846	23,558	1,288	5.2	60.4
65 +	39,469	4,739	4,265	474	10.0	12.0
Nonwhite Male	79,350	36,030	31,362	4,668	13.0	76.2
0-15	32,051	--	--	--	--	--
16-17 )						
18-19 )	7,718	3,806	2,592	1,214	31.9	49.3
20-24	7,606	5,841	5,059	782	13.4	76.8
25-34	13,100	12,020	10,596	1,424	11.8	91.8
35-44	7,123	6,587	5,977	610	9.3	92.3
45-64	8,892	7,243	6,721	522	7.2	81.5
65 +	2,860	533	417	116	21.8	18.6
Nonwhite Female	99,088	34,906	31,445	3,461	9.9	52.0
0-15	31,953	--	--	--	--	--
16-17 )						
18-19 )	7,784	3,887	3,327	560	14.4	50.0
20-24	10,008	5,549	4,828	721	13.0	55.4
25-34	21,080	11,525	10,555	970	8.4	54.7
35-44	11,148	6,077	5,609	468	7.7	54.5
45-64	12,266	7,297	6,619	678	9.3	59.5
65 +	4,849	571	507	64	11.2	11.8

Table 39  
 Additional Planning Data Projections  
 Fiscal Year 1980  
 Boston CETA

<u>Employed Part-time For Economic Reasons</u>	
<b>TOTAL</b>	<b>11,855</b>
White Male	2,804
White Female	4,936
Nonwhite Male	1,662
Nonwhite Female	2,453

<u>Economically Disadvantaged 18 Years and Over</u>	
<b>TOTAL</b>	<b>73,002</b>
White	47,597
Black	22,704
Other	2,701
Spanish	4,878

Table 40  
ADDITIONAL UNEMPLOYMENT PROJECTIONS

FISCAL YEAR 1980

BOSTON CETA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	20,797	7.4	5,134	65,430
White Male	7,233	7.0	2,416	21,673
White Female	5,435	5.1	554	19,370
Nonwhite Male	4,668	13.0	1,726	14,004
Nonwhite Female	3,461	9.9	438	10,383

Table 41  
POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS  
FISCAL YEAR 1980  
EMHRDA

	Population	Labor Force	Employ.	Unemploy.	Unemploy. Rate	LFP* Rate
<b>TOTAL</b>	280,099	142,045	132,955	9,090	6.4	66.5
White Male	125,188	72,059	67,723	4,336	6.0	77.0
0-15	31,625	--	--	--	--	--
16-17 )	9,174	6,313	5,545	768	12.2	68.8
18-19 )	15,057	10,773	9,996	777	7.2	71.5
20-24	20,071	17,769	16,506	1,263	7.1	88.5
25-34	14,821	14,274	13,766	508	3.6	96.3
35-44	22,698	19,940	19,067	873	4.4	87.8
45-64	11,742	2,990	2,843	147	4.9	25.5
65 +						
White Female	140,206	63,084	59,010	4,074	6.5	57.5
0-15	30,471	--	--	--	--	--
16-17 )	8,737	7,118	6,450	668	9.4	81.5
18-19 )	14,026	11,597	10,994	603	5.2	82.7
20-24	21,227	15,767	14,716	1,051	6.7	74.3
25-34	16,827	10,453	10,102	351	3.4	62.1
35-44	26,450	15,700	14,588	1,112	7.1	59.4
45-64	22,468	2,449	2,160	289	11.8	10.9
65 +						
Nonwhite Male	7,267	3,693	3,340	353	9.6	74.0
0-15	2,279	--	--	--	--	--
16-17 )	549	297	241	56	18.9	54.1
18-19 )	1,039	657	610	47	7.2	63.3
20-24	1,420	1,187	1,048	139	11.7	83.6
25-34	787	761	708	53	7.0	96.7
35-44	827	698	649	49	7.0	84.4
45-64	366	93	84	9	9.7	25.4
65 +						
Nonwhite Female	7,438	3,209	2,882	327	10.2	60.3
0-15	2,119	--	--	--	--	--
16-17 )	477	343	309	34	9.9	71.9
18-19 )	848	451	410	41	9.1	53.2
20-24	1,158	867	755	112	12.9	74.9
25-34	987	711	655	56	7.9	72.0
35-44	1,115	758	691	67	8.8	68.0
45-64	734	79	62	17	21.5	10.8
65 +						

\* Labor Force Participation

Table 42  
Additional Planning Data Projections  
Fiscal Year 1980  
EMHRDA

<u>Employed Part-time For Economic Reasons</u>	
<b>TOTAL</b>	5,257
White Male	1,964
White Female	2,891
Nonwhite Male	177
Nonwhite Female	225

Economically Disadvantaged  
18 Years and Over

<b>TOTAL</b>	23,652
White	21,523
Black	1,443
Other	686
Spanish	515

Table 43  
ADDITIONAL UNEMPLOYMENT PROJECTIONS

FISCAL YEAR 1980

EMHRDA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	9,090	6.4	2,229	29,146
White Male	4,336	6.0	1,350	14,287
White Female	4,074	6.5	734	12,819
Nonwhite Male	353	9.6	108	1,059
Nonwhite Female	327	10.2	37	981

### B. Groups of Statutory Significance

Within the population there are certain groups on whom government funded programs are encouraged to focus. Among these groups are the economically disadvantaged, youth, minorities, handicapped, veterans, workers over 45 years of age, high school dropouts, persons with limited English-speaking ability and law offenders.

The Employment Service Automated Reporting System (ESARS) provides a degree of information on these groups, as those who are seeking employment come into Job Service offices to register. These reports indicate the number and characteristics of job applicants on file in the local offices.

ESARS provides data on applicants by sex, age, race, educational attainment, handicapped, veteran status, and poverty level. Table lists the local offices in the Boston SMSA and breakdown of their registered applicants by these characteristics. Table provides the total number of applicants registered in the SMSA, cross referenced by characteristics and services received, as of March 1979. Of the 113,490 registered applicants, 54 percent were females, 21 percent were under 22 years of age and 35 percent had less than 12 years of education. Both youth and high school dropouts represented a greater share of those placed as compared with their share of total registered applicants. Youth accounted for 46 percent of total individuals placed, and 37 percent of those placed had less than a high school education.

In addition to ESARS some information on some of these groups can be gathered from the survey of Selected Characteristics of the Insured Unemployed. This survey of unemployment insurance claimants is available on a SMSA basis, by local office area, and by CETA area. Table 47 provides some claimant characteristics for the Boston SMSA and for the local offices located in the SMSA taken from a survey of claimants that was conducted during December 1978.

Table 44  
CHARACTERISTICS OF APPLICANTSMarch 1979  
Boston SMSA

CHARACTERISTICS OF APPLICANTS	REGISTERED APPLICANTS	INDIVIDUALS COUNSELED	PLACED AFTER COUNSELING	ENROLLED IN TRAINING	TOT. APPLIC PLAC IN JO
Age - All Ages	113,490	3,603	586	643	20,85
Under 20 years	15,068	338	75	60	7,23
20 - 21	8,871	192	47	37	2,44
22 - 24	13,865	421	70	77	2,77
25 - 29	19,404	641	114	132	2,89
30 - 39	27,618	826	127	196	2,61
40 - 44	8,772	225	38	53	74
45 - 54	12,996	590	78	76	1,26
55 - 64	5,870	353	35	12	72
65 years or older	1,026	17	2	0	14
Sex					
Men	52,556	2,038	390	237	11,1
Women	60,934	1,565	196	406	9,6
Highest Grade of School Completed					
0 - 7	5,148	195	18	32	3
8 - 11	34,387	1,000	162	260	7,4
12	44,023	1,297	233	284	7,3
Over 12 years	29,932	1,111	173	67	5,6
Handicapped	5,159	620	106	46	86
Welfare	41,664	1,065	190	419	1,1
Ethnic Group					
White	90,576	3,208	513	483	17,07
Black	16,118	273	56	91	2,90
Other	946	23	3	6	16
Spanish Surname	5,561	96	14	61	66
Vietnam - ERA Veteran	3,526	187	47	21	81

Table 45  
 Cities and Towns Served By The Local Offices  
 In The  
 Boston SMSA

<u>Boston Office</u>	<u>Norwood Office</u>	<u>Woburn Office</u>
Boston	Canton	Bedford
Brookline	Dedham	Burlington
	Dover	North Reading
<u>Cambridge Office</u>	Medfield	Reading
Arlington	Norfolk	Stoneham
Belmont	Norwood	Wilmington
Cambridge	Sharon	Winchester
Somerville	Walpole	Woburn
	Westwood	
<u>Chelsea Office</u>		
Chelsea	<u>Quincy Office</u>	
Revere	Braintree	
Winthrop	Cohasset	
	Hingham	
<u>Framingham Office</u>		
Ashland	Hull	
Framingham	Milton	
Holliston	Norwell	
Hopkinton	Quincy	
Natick	Scituate	
Sherborn	Weymouth	
Westboro		
<u>Lynn Office</u>		
Lynn	<u>Salem Office</u>	
Lynnfield	Beverly	
Nahant	Danvers	
Saugus	Hamilton	
Swampscott	Marblehead	
	Middleton	
<u>Malden Office</u>		
Everett	Peabody	
Malden	Salem	
Medford	Topsfield	
Melrose	Wenham	
Wakefield		
<u>Newton Office</u>		
Needham	<u>Waltham Office</u>	
Newton	Lexington	
Watertown	Lincoln	
Wellesley	Waltham	
	Wayland	
	Weston	

Table 46  
 Characteristics of Applicants  
 By Local Office  
 March 1979  
 Boston SMSA

	Total	Female	Disadvantaged	Veteran	Minority	Under 22	Over 45	Handicapped
<b>LOCAL OFFICES:</b>								
Boston	17,090	6,989	7,517	2,628	7,396	5,272	2,320	1,048
Cambridge	5,856	2,645	1,047	667	1,169	1,464	735	174
Chelsea	5,129	1,937	647	864	434	1,499	1,053	286
Framingham	5,039	2,046	429	903	254	1,152	940	222
Lynn	5,006	1,939	1,132	1,055	422	1,264	944	472
Malden	8,206	3,575	1,654	1,314	343	2,169	1,550	333
Newton	3,536	1,596	373	545	222	639	641	147
Norwood	3,740	1,756	511	418	199	1,353	591	114
Quincy	6,577	2,955	2,368	1,095	102	2,616	911	301
Salem	5,482	2,162	1,241	1,175	178	1,211	1,028	265
Waltham	7,960	3,224	863	1,353	580	1,109	1,405	314
Woburn	5,447	2,236	477	940	120	1,642	1,005	322

Table 47  
 Claimant Characteristics  
 By  
 Local Office  
 Boston SMSA  
 December 1978

	Total	Female	Under 25	Non-white	Spanish Surname	Unemployed Over 20 Weeks
BOSTON SMSA	28,046	11,377	5,120	2,255	337	4,932
Boston Office	5,372	2,194	883	1,773	252	1,072
Cambridge Office	3,080	1,332	551	208	46	604
Chelsea Office	1,473	537	278	26	18	178
Framingham Office	1,053	446	169	28	0	141
Lynn Office	1,735	660	319	31	3	322
Malden Office	2,776	1,125	521	39	3	541
Newton Office	1,780	795	253	43	0	308
Norwood Office	1,529	680	268	14	0	237
Quincy Office	3,202	1,214	658	29	5	621
Waltham Office	782	348	130	6	0	106
Woburn Office	1,562	544	332	26	4	157
Salem Office	1,855	751	345	22	11	332

Source: Selected Characteristics of the Insured Unemployed

Note: Does not add due to survey methodology

c. Training Programs

CETA: The Comprehensive Employment and Training Act of 1973 was enacted to provide job training and employment opportunities to economically disadvantaged, unemployed, and underemployed persons in order to maximize employment opportunities and enhance self sufficiency. CETA offers a number of types of opportunities under Titles II, IV, and VI of the Act. Title II provides training, education, work experience, upgrading, retraining and public service employment to prepare jobless persons for unsubsidized employment. Title IV covers youth programs such as the Job Corps, Summer Youth Programs, the Youth Incentive Entitlement Pilot Projects, the Youth Community Conservation and Improvement Projects and Youth Employment and Training Programs. Title VI offers public service employment during periods of high unemployment.

WIN: The Work Incentive Program (WIN) is a federally funded program which is designed to assist recipients of Aid to Families with Dependent Children (AFDC) in obtaining job skills and opportunities. The program provides these individuals with job counseling, training programs and job development and placement assistance. Table48 contains information regarding WIN registrants in the Boston SMSA for the period October 1, 1978, through March 31, 1979. During that time period 41,091 individuals were registered for services in the WIN program.

Over fifty percent of those registered with WIN were between the ages of thirty and forty-four. Almost three out of four registrants were female and 50 percent had less than a high school education. During the first two quarters of fiscal year 1979, 2,160 WIN registrants went to work. The characteristics of those who entered employment follow fairly closely to the overall characteristics of the registrants with one major exception. Although males accounted for only 25 percent of all registrants, they represented almost 41 percent of those who obtained employment.

Table 48  
 Selected WIN Registrant  
 Characteristics and Activities  
 Boston SMSA  
 March 1979

	Registrants	Entered Employment	Percent Entered Employment
<b>TOTAL</b>	<b>41,091</b>	<b>2,160</b>	<b>100.0</b>
<b><u>Age</u></b>			
Under 20	2,042	132	6.1
20 - 29	10,303	576	26.7
30 - 34	20,909	1,168	54.1
Over 45	7,837	284	13.1
<b><u>Sex</u></b>			
Male	10,511	882	40.8
Female	30,580	1,278	59.2
<b><u>Education</u></b>			
0 - 7 years	3,465	119	5.5
8 - 11 years	17,305	773	35.8
12 years	16,154	968	44.8
Over 12 years	4,167	300	13.9
<b><u>Ethnic</u></b>			
White	27,534	1,694	78.4
Black	9,649	341	15.8
Hispanic	3,412	112	5.2
Other	380	12	0.6
<b><u>Employment Status</u></b>			
Full-time	1,109	59	2.7
Part-time	1,658	113	5.2
Not Working	38,324	1,988	92.1

Note: Ethnic information not available for all registrants.



M35      Mass. Division of  
M38E.A   Employment Security.  
1980      Annual Planning  
            Information Report  
            Fiscal Year 1980  
            Boston SMSA.

M35  
M38E.A  
1980      Massachusetts Division  
            of Employment Security.

